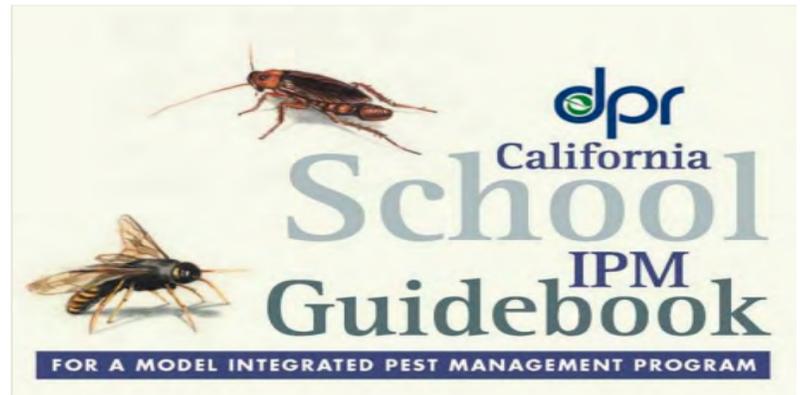




Compton Unified School District

Pest Control Services Logbook



“Achieving Sustainability in California
School Pest Management Is Our Goal”

INTERGRATED PEST CONTROL M A N A G E M E N T



Integrated Pest Control Management, Inc.
527 N. Azusa Ave.
Covina, CA 91722
Office: 626-618-6237
Fax: 626-608-3276
customerservice@ipcminc.com



GENERAL PEST PROGRAM

Scope of Services for Compton Unified School District

Service Requirements

- A location inspection will be carried out prior to the start of each service. IPCM, Inc. will leave a copy of the inspection report after completing the service and address any sanitation issues that require attention.
- Treatment will control and/or prevent the infestation of roaches, ants and any pests.
- All pesticides and rodenticides will be applied in accordance with all E.P.A. local and Federal laws and product label directions.
- Determine the best preventive measures.
- Reduce the unnecessary use of pesticides.
- Maintain records for each building detailing:
 - monitoring techniques;
 - location; and
 - inspection schedule.
- Record monitoring results and inspection findings, including recommendations.
- Only applying pesticide products that have been included in the IPM Plan and approved in writing by the maintenance & operations director
- IPCM, Inc. will provide a written notice of the intention (postings) to apply pesticides. List date, chemicals, rooms, kitchens and other areas to be sprayed with insecticides someplace visible, at least 24 hours before application.

Insect Control

Covered Pests (Argentine Ants, Roaches, Gophers, Squirrels, Rats and Mice).

- Non-residual aerosols may be used during inspection and treatment if the pest is present at the time of the service, it will kill on contact.
- Liquid chemicals will be applied ONLY in cracks and crevices or sprayed around the exterior perimeter of building.
- All harborage areas (i.e., cabinets, sinks, closets, pantries) and cracks, crevices and breeding sites where pests have been identified will be treated with roach bait gels.
- Spraying insecticides to exposed surfaces will be limited. If use is required, IPCM, Inc. will obtain approval from the M & O director prior to any application of insecticide to an exposed surface or application of a spray treatment. IPCM, Inc. will ensure employee safety and employ necessary precautions for the containment of the pesticide to the site of application. No surface application or space spraying will be conducted while personnel's are present.

Rodent Control

- IPCM, Inc. will use trapping as the first method of indoor rodent control. Traps will be out of general view and in protected areas so as not to be affected by routine cleaning and other operations. IPCM, Inc will check trapping devices on a schedule. All trapped rodents and all rodent carcasses will be disposed of in an appropriate manner.
-



- When used in conjunction with other structural and mechanical controls, rodent baits are an effective means of providing long-term control with a minimal risk to people, pets and wildlife. When used indoors, baits will always be installed within tamper-resistant bait stations and in out-of-reach areas. All bait stations (inside and outside) will be maintained in accordance with the Environmental Protection Agency's (EPA) regulations, with an emphasis on the safety of non-target organisms and in adherence to the following:
 - All bait stations must be placed out of general view, in locations where they will not be disturbed by routine operations
 - The lids of all bait stations must be securely locked or fastened shut.
 - The bait must always be secured in the feeding chamber of the bait station and never placed in the runway or entryways of the bait station.
 - All bait stations must be labeled with the IPCM, Inc. business name and address, and dated by the technician at the time of installation and at each follow-up service.
 - The stations will have a bar code that will be scanned every time its serviced and you can look online for the date and time it was last serviced.
 - Bait stations should be inspected during every service visit for monitoring purposes and to ensure stations are not providing harborage to non-target pests.

Service Procedures: Frequency

- One time per month – day service. Follow ups if needed and upon call will be in 6 to 24 hours.
- Emergency services will be serviced within 4 to 6 hours upon call.
 - a. Exterior Perimeter
 - 1. Apply liquid chemicals around exterior trash/dumpster areas and exterior perimeter of buildings. Any needed field.
 - 2. In cracks and crevices
 - b. Interior Perimeter
 - 1. Install glue boards and Crack & Crevice treatment with gels or baits to problem areas to ensure a successful treatment.
 - 2. Treatment of all offices, restrooms, employee break areas, cafeterias, locker rooms, MPR, home econ. room, trash areas, kitchen, storage room, around buildings and common areas.
- Apply pesticides according to need and not by schedule. Do not apply pesticides in any inside or outside area unless visual inspection or monitoring devices indicate the presence of pests in that specific area and actionable levels specified in IPM Plan are exceeded.
- IPCM, Inc will to provide an update on work performed to the M & O Director weekly and/or monthly.

Pest Prevention

Preventive actions include:

- Reducing clutter.
- Sealing areas where pests enter the building (weatherization).
- Removing trash and overgrown vegetation.



- Maintaining clean dining and food storage areas.
- Installing pest barriers.
- Removing standing water.
- Educating building occupants on IPM.

Pest Control

IPCM, Inc. sets up a program to use the most effective, lowest risk options considering the risks to the applicator, building occupants, and environment. Control methods include:

- Pest trapping.
- Heat/cold treatment.
- Physical removal.
- Pesticide application.

Documenting pest control actions is critical in evaluating success and should include:

- An on-site logbook with records of each pest control service, including all pesticide applications, in a searchable, organized system.
- Evidence that non-chemical control methods were considered and implemented.
- Recommendations for preventing future pest problems.





CALIFORNIA DEPARTMENT OF PESTICIDE REGULATION

**1001 I STREET
SACRAMENTO, CALIFORNIA 95814**

**ISSUED: March 23, 2017
EXPIRES: December 31, 2018**

**Pest Control Business - Main
LICENSE
LICENSE NO. 40584**

Invalid if insurance and/or qualified person(s) lapse before expiration date.

Mailing Address

**INTERGRATED PEST CONTROL MGMT, INC
527 N AZUZA AVE
COVINA, CA 91722**

Business Location

**INTERGRATED PEST CONTROL MGMT, INC
16812 E MASLINE ST
COVINA, CA 91722**

**POST THIS LICENSE PROMINENTLY IN PUBLIC VIEW
THIS LICENSE IS NOT TRANSFERABLE - ANY CHANGE IN OWNERSHIP REQUIRES A NEW LICENSE**



Structural Pest Control Board



ORIGINAL CERTIFICATE

Company Registration

General Pest

REGISTRATION PR 7497

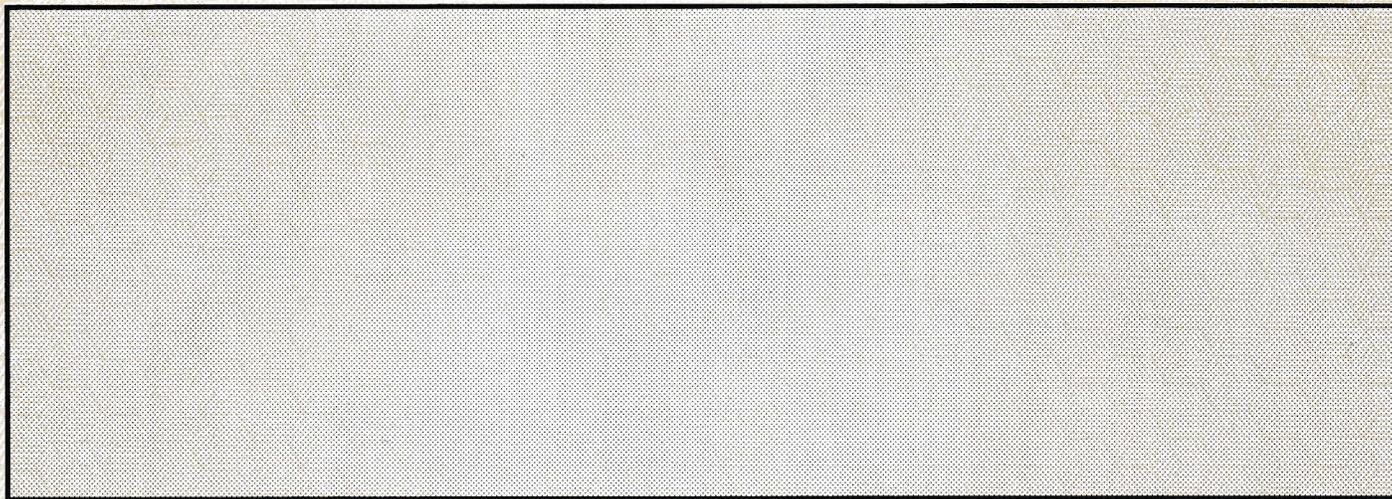
ISSUE DATE MAY 18, 2016

INTERGRATED PEST CONTROL MANAGEMENT INC

16812 EAST MASLINE ST

COVINA CA 91722

The above is registered with the State Structural Pest Control Board as a Corporation.



THIS REGISTRATION IS NOW, AND SHALL REMAIN, THE PROPERTY OF THE STRUCTURAL PEST CONTROL BOARD AND SHALL BE SURRENDERED TO SAID BOARD AT ANY TIME UPON DEMAND, PENDING FINAL ACTION AS TO SUSPENSION, REVOCATION, OR RENEWAL OF SAME.

RECEIPT NUMBER 00157215

This Original Registration must be kept for the life of the registration and posted in Public View.

In accordance with the provisions of Chapter 14, Division 3 of the Business and Professions Code, the registrant named above is hereby registered at the above address, and is subject to the rules and regulations of the California Structural Pest Control Board.

Registrations are non-transferable. You must contact the California Structural Pest Control Board within 30 days when there is a change of ownership, location, corporate officer, qualifying operator, or field representative employee.

STRUCTURAL PEST CONTROL BOARD
2005 EVERGREEN STREET, SUITE 1500
SACRAMENTO, CA 95815-3831
(916) 561-8704

----- POST IN PUBLIC VIEW -----

Structural Pest Control Board

STRUCTURAL PEST CONTROL BOARD

Licensee Name: INTERGRATED PEST CONTROL MANAGEMENT INC
License Type: COMPANY REGISTRATION
License Number: 7497
License Status: CLEAR [Definition](#)
Issue Date: May 18, 2016
License or Registration Class: Branch 2
Address: 16812 EAST MASLINE ST
City: COVINA
State: CA
Zip: 91722
County: LOS ANGELES
Actions: No

Business Owners

FLORES JOSE JR

Related Licenses/Registrations/Permits

Number	Name	Type	Status	Actions
11399	FLORES JOSE JR	OPERATOR	CLEAR	No

Disciplinary Actions

No information available from this agency

Public Record Action(s)

This information is updated Monday through Friday - Last updated: MAY-18-2016

Disclaimer

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Back



Certificate of Completion

Beaumont Unified School District

JOSE FLORES

has completed a one day course on School IPM Training

“Integrated Pest Management (IPM) for School Facilities”

California Department of Pesticide Regulation
Pest Management and Licensing Branch

Perris, California

June 15, 2017

LISA ESTRIDGE, SENIOR ENVIRONMENTAL SCIENTIST (SUPERVISORY)
PEST MANAGEMENT AND LICENSING



Certificate of Completion

This Certificate is awarded to

Pomona Unified School District

Jose Flores

For successfully completing six hours of School IPM Training on

“Integrated Pest Management (IPM) for School Facilities”

California Department of Pesticide Regulation

Pest Management and Licensing Branch


Mary-Ann Warmerdam, Director

June 27, 2007

Date



PEST CONTROL OPERATORS OF CALIFORNIA

3031 Beacon Boulevard
West Sacramento CA 95691-3462
Phone: (916) 372-4363 Fax: (916) 372-5437

Certificate of Completion Continuing Education Activity

Name:	Jose Flores	DPR License #:	QL51770
Type of Activity:	Africanized Honey Bee Certification for Structural and Agricultural Pest Control Operators		
Date of Activity:	4/10/2007	DPR Course #:	A-304-07
Activity:	L		
Hours Attended:	2.00	CE Hours Earned:	2.00

This is to certify that the above named licensee has successfully completed the above numbered activity.

Eric R. Paulsen

Signed PCOC Staff

This course is codified in 8565.6 of the Business and Professions Code and in 12203(c) of the Food and Agriculture Code. This individual named above is certified in the control of Africanized Honey Bees in accordance to the type of pest control license they hold and the corresponding "bee control types" applicable to said license. Licensees who fail to follow the standards of practice outlined in the class forfeit their Certification.

FLO130

[GreenPro \(/greenpro/\)](/greenpro/) [QualityPro Schools \(/qualitypro-schools/\)](/qualitypro-schools/) [QualityPro Food Safety \(/qualitypro-food-safety/\)](/qualitypro-food-safety/)

[QualityPro Canada \(/qualitypro-canada/\)](/qualitypro-canada/) [Certified Company Login \(http://www.qualityprotools.org\)](http://www.qualityprotools.org)



[About QualityPro \(\)](#) [QualityPro Standards \(\)](#) [Business Opportunities \(/business-opportunities/\)](/business-opportunities/) [Look Who's Certified \(\)](#)
[Credentials \(/pest-management-credentials/\)](/pest-management-credentials/)

Thanks for applying

We have just received your application to QualityPro and would like to welcome you to the program. We will be sending access to www.qualityprotools.org and all the information you need to become QualityPro accredited. You can expect to receive these materials via USPS in the next 2 weeks. As you go through the application process, if you have any questions please feel free to contact me at 703-352-6762 or by email at qualitypro@pestworld.org.

I look forward to working with you and congratulations on taking the first step becoming a QualityPro accredited company!

Sincerely,
Allison T. Allen, BCE
Executive Director, QualityPro



Earn your national certification

[Apply Now \(/apply-now/\)](/apply-now/)

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Affiliated Websites

[GreenPro \(http://www.npmaqualitypro.org/greenpro/\)](http://www.npmaqualitypro.org/greenpro/) | [QualityPro Schools](#)
[\(http://www.npmaqualitypro.org/qualitypro-schools/\)](http://www.npmaqualitypro.org/qualitypro-schools/) | [QualityPro Food Safety](#)
[\(http://www.npmaqualitypro.org/qualitypro-food-safety/\)](http://www.npmaqualitypro.org/qualitypro-food-safety/) | [QualityPro Canada](#)

CERTIFICATE OF COMPLETION

is awarded to

Eduardo Mejia

for Successfully Completing the

Best Pest Management Practices Around Children

This course meets the training requirement of the Healthy Schools Act.

May 22, 2017

SPCB CE: 0.5 hour IPM, 0.5 hour Rules & Regulations, ID #8895 (L,M)
License Number:

DPR CE: 0.5 hour Other, 0.5 hour Laws & Regulations, ID # 0-0065-17
Location: Online

CERTIFICATE OF COMPLETION

is awarded to

Jose Flores

for Successfully Completing the

Best Pest Management Practices Around Children

This course meets the training requirement of the Healthy Schools Act.

July 12, 2016

SPCB CE: 0.5 hour IPM, 0.5 hour Rules & Regulations, ID #8895 (L,M)
License Number:

DPR CE: 0.5 hour Other, 0.5 hour Laws & Regulations, ID # 0-0135-16
Location: Online

SCHOOL SITE AND CHILD DAY CARE FACILITY PESTICIDE USE REPORTING BY A BUSINESS

APPLICATION YEAR 2017	BUSINESS REGISTRATION/LICENSE/CERTIFICATE # PR7497	BUSINESS/OPERATOR NAME Intergrated Pest Control Management, Inc					
BUSINESS ADDRESS 527 N. Azusa Ave.			CITY Covina	STATE CA	ZIP CODE 91722	BUSINESS PHONE NUMBER 626-618-6237	
School CDS #/Child Day Care Facility # OR Name & Address AND Specify if School or Child Day Care Facility	County Code (list on back)	Date & Time Application Completed	Location Code (# from list on back)	Manufacturer & Name of Product Applied	EPA REG. Number on Label or CA Reg. Number for adjuvants (include alpha code, if listed)	Amount of Pesticide Product Used (check or write in unit from label)	Pest Control Code (from list on back)
<input type="checkbox"/> School						<input type="text"/> (vol.) <input type="checkbox"/> OZ <input type="checkbox"/> ML <input type="checkbox"/> PT (wt.) <input type="checkbox"/> GR <input type="checkbox"/> OZ <input type="checkbox"/> LB	
<input type="checkbox"/> School						<input type="text"/> (vol.) <input type="checkbox"/> OZ <input type="checkbox"/> ML <input type="checkbox"/> PT (wt.) <input type="checkbox"/> GR <input type="checkbox"/> OZ <input type="checkbox"/> LB	
<input type="checkbox"/> School						<input type="text"/> (vol.) <input type="checkbox"/> OZ <input type="checkbox"/> ML <input type="checkbox"/> PT (wt.) <input type="checkbox"/> GR <input type="checkbox"/> OZ <input type="checkbox"/> LB	
<input type="checkbox"/> School						<input type="text"/> (vol.) <input type="checkbox"/> OZ <input type="checkbox"/> ML <input type="checkbox"/> PT (wt.) <input type="checkbox"/> GR <input type="checkbox"/> OZ <input type="checkbox"/> LB	
<input type="checkbox"/> School						<input type="text"/> (vol.) <input type="checkbox"/> OZ <input type="checkbox"/> ML <input type="checkbox"/> PT (wt.) <input type="checkbox"/> GR <input type="checkbox"/> OZ <input type="checkbox"/> LB	
<input type="checkbox"/> School						<input type="text"/> (vol.) <input type="checkbox"/> OZ <input type="checkbox"/> ML <input type="checkbox"/> PT (wt.) <input type="checkbox"/> GR <input type="checkbox"/> OZ <input type="checkbox"/> LB	

REPORT PREPARED BY _____

DATE _____

INSTRUCTIONS:

- 1 Each line is an individual pesticide application. Report only one schoolsite, date/time, and pesticide per line. Multiple pages will be needed if you need to report more than 5 pesticide applications.
- 2 A name and address is required for each schoolsite. A cover sheet with all schoolsite names/addresses can be included with your report to prevent repetitive writing/typing.
- 3 Applicators: If you are mixing a concentrate with a liquid, report the amount of concentrate applied. For products that don't require dilution, report the amount of finished product applied.

<u>PEST CONTROL CODES:</u>	
Code 10 - Structural Pest Control.....	includes pest control work performed within or on buildings or other structures
Code 30 - Landscape Maintenance Pest Control.....	includes pest control work performed on landscape plantings around buildings
Code 80 - Vertebrate Pest Control.....	includes pest control work performed by public agencies or work under the supervision of the State or county agricultural commissioner
Code 91 - Nonfood / Nonfeed Fumigation.....	includes pest control work performed on commodities such as mattresses, furniture, ect.

<u>LOCATION CODES:</u>				
1 Administration Bldg	5 Cafeteria/Kitchen	9 Landscape (indoor)	13 Multipurpose Room	17 Vehicle
2 Athletic Field	6 Classroom	10 Landscape (outdoor)	14 Playground	18 Multiple Locations
3 Auditorium	7 Gymnasium	11 Library	15 Pool	19 Other (Please indicate)
4 Bldg, Exterior	8 Hardscape (parking lot, sidewalk, etc.)	12 Locker Room	16 Restroom	

CALIFORNIA COUNTY CODES

01 - ALAMEDA	11 - GLENN	21 - MARIN	31 - PLACER	41 - SAN MATEO	51 - SUTTER
02 - ALPINE	12 - HUMBOLDT	22 - MARIPOSA	32 - PLUMAS	42 - SANTA BARBARA	52 - TEHAMA
03 - AMADOR	13 - IMPERIAL	23 - MENDOCINO	33 - RIVERSIDE	43 - SANTA CLARA	53 - TRINITY
04 - BUTTE	14 - INYO	24 - MERCED	34 - SACRAMENTO	44 - SANTA CRUZ	54 - TULARE
05 - CALAVERAS	15 - KERN	25 - MODOC	35 - SAN BENITO	45 - SHASTA	55 - TUOLUMNE
06 - COLUSA	16 - KINGS	26 - MONO	36 - SAN BERNARDINO	46 - SIERRA	56 - VENTURA
07 - CONTRA COSTA	17 - LAKE	27 - MONTEREY	37 - SAN DIEGO	47 - SISKIYOU	57 - YOLO
08 - DEL NORTE	18 - LASSEN	28 - NAPA	38 - SAN FRANCISCO	48 - SOLANO	58 - YUBA
09 - EL DORADO	19 - LOS ANGELES	29 - NEVADA	39 - SAN JOAQUIN	49 - SONOMA	
10 - FRESNO	20 - MADERA	30 - ORANGE	40 - SAN LUIS OBISPO	50 - STANISLAUS	



**WARNING! PESTICIDE TREATED AREA
!ADVERTENCIA! AREA TRATADA CON PESTICIDA**

INTENDED APPLICATION DATE (FECHA PROPUESTA DE APLICACION)	APPLICATION DATE (FECHA DE APLICACION)

SCHOOL NAME (NOMBRE DE ESCUELA)	TREATED AREAS (AREAS TRATADAS)	REASON FOR TREATMENT (RAZON DE APLICACION)
	Exterior & Interior Perimeter of all Buildings & Kitchen	Ants, mice, roaches, spiders, crickets, silverfish and removal of spider
	Exterior & Interior Perimeter of all Buildings & Kitchen	Ants, mice, roaches, spiders, crickets, silverfish and removal of spider
	Exterior & Interior Perimeter of all Buildings & Kitchen	Ants, mice, roaches, spiders, crickets, silverfish and removal of spider

NAME OF PESTICIDE (NOMBRE DEL PESTICIDA)	MFG NAME / USEPA REGISTRATION # (NOMBRE DE FABRICANTE / # DE REGISTRO)
Termidor SC 6 ounces per site	BASF 7969-210
Advion ant	SYNGENTA 100-1498
Advion roach gel	SYNGENTA 100-1484
Advion insect granular bait	SYNGENTA 100-1483
Transport GHP	FMC 8033-96-279
Avert DF	BASF 499-294
Termidor SC	BASF 7969-210

ALWAYS BE SAFE!

1. If you need more information please call service technician
2. Do not play on the treated area.
3. Wash your hands and exposed Skin if you touch the treated area.

!SIEMPRE ACTUE CON CUIDADO!

1. Si necesita mas informacion por favor de llamar a su tecnico de servicio
2. No juegue en la area tratada.
3. Lavese las manos y la piel expuesta si usted toca el area tratada

CAUTION! KEEP OUT OF REACH OF CHILDREN !PELIGRO! VENENO



Monthly Schedule					
Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
<u>1st Monday</u> Dominguez High School Kelly ES Roosevelt MS Clinton ES Emerson ES	<u>1st Tuesday</u> Rosecrans ES Dickinson ES Davis MS Washington ES	<u>1st Wednesday</u>	<u>1st Thursday</u>	<u>1st Friday</u> Police Department Repographics Compton High School Pupil Services	<u>1st Saturday</u>
<u>2nd Monday</u> Warehouse Transporation Food Warehouse Maintenance & Facilities	<u>2nd Tuesday</u> Martin Luther King ES Jefferson ES Bunche MS	<u>2nd Wednesday</u> Centennial High Ronald E. Mcnair ES Willowbrook MS Anderson ES	<u>2nd Thursday</u> Walton MS Robert F. Kennedy ES Longfellow ES Caldwell ES Ralph Binche ES	<u>2nd Friday</u> Mckinley ES Visual Performing Arts Adult School Tibby ES	<u>2nd Saturday</u>
<u>3rd Monday</u> Thurgood Marshall Alt. Cesar Chavez Cont. HS Harriet Tubman HS	<u>3rd Tuesday</u> Foster ES Roosevelt ES Whaley MS Mayo ES	<u>3rd Wednesday</u> Carver ES District Office Lincoln ES Vanguard Learning	<u>3rd Thursday</u> Bursch ES Enterprise MS Laurel Street ES	<u>3rd Friday</u>	<u>3rd Saturday</u>
<u>4th Monday</u>	<u>4th Tuesday</u>	<u>4th Wednesday</u>	<u>4th Thursday</u>	<u>4th Friday</u>	<u>4th Saturday</u>

*Last week of the months will be scheduled for follow-ups if needed.



Identifying Pest Management Roles at Schools

In successful Integrated Pest Management (IPM) Programs, students, staff, parents, pest managers and decision makers all have important roles. These functions and responsibilities are identified below.

Students and Staff-The Occupants

Students and staff play major roles in keeping the school clean. Sanitation should not be viewed as only the custodian's job. If students and staff learn the connection between food, garbage and pests such as cockroaches, ants, flies and rodents, they are more likely to take sanitation measures seriously and comply with them.

The Pest Manager/ IPM Coordinator

The pest manager is the person who observes and evaluates the site and decides what needs to be done to achieve the pest management objectives. This person is often the school site designee who is responsible for complying with the requirements of the Healthy Schools Act. The pest manager designs the IPM program and keeps accurate records of the amount and locations of all treatments.

Decision Makers

Generally, people who authorize the IPM program and control the funding for the pest management program are people involved in the school administration, such as superintendent or assistant superintendent of schools. However, a person indirectly involved with the site may become pest management decision maker, eg., the Health Department Inspector. On other occasions, the purchasing agent or contracting officer for a school system or district may be major decision maker for a school site. Decision makers also determine if the pest manager is performing at an acceptable level and if the pest management objectives are met. Decision makers must also provide the necessary level of financial commitment for any IPM program to succeed.



Suggested Information Sheet for Schools or Child Day Care Centers to Provide to Parents Regarding the Health School Act of 2000

As of January 1, 2007, the Healthy Schools Act (as amended by Assembly Bill 2865, Chapter 865, Statutes of 2006) requires public schools and child day care centers to notify parents, guardian, and employees about pesticides used in their schools and day care centers. [Family day care homes are exempt from the requirements of this law.] The law also requires the Department of Pesticide Regulation (DPR) to promote the voluntary adoption of integrated pest management (IPM) practices in California schools, child day care centers, and family day care homes.

Each school district and child day care center is to implement the following requirements of the law:

- **Annual Notification.** Each school district and child day care center shall provide notification of all pesticide products (except those that are exempt) the school district or child day care center expects will be applied in the upcoming year to parents or guardians of children who attend the school or child day care center. These products include over-the-counter pesticides available at retail outlets, as well as those that are applied by licensed pest control businesses. The notification must list the active ingredients in each pesticide product and the Department of Pesticide Regulation's (DPR) School IPM Web site (<http://www.schoolipm.info>), which provides additional information.
- **Registry.** Each school or child day care center shall provide the opportunity for interested staff and parents or guardians to register with the school or day care center if they want to be notified about individual pesticide applications before they occur.
- **Warning signs.** Each school district or child day care center shall post warning signs at each area of the site where pesticides will be applied. These signs are posted 24 hours before and 72 hours after applications and should be sufficient, in the site's opinion, to restrict uninformed access to treated areas.
- **Recordkeeping.** Each school or child day care center shall maintain records of all pesticide use at the site for four years and make the records available to the public upon request.

For more information, contact your local school district or your child day care center.

DPR's School IPM Program promotes and facilitates the voluntary adoption of IPM programs at public schools, child day care centers, and family day care homes.

- DPR developed a model school IPM program guidebook that reflects conditions in California.
- DPR has established and maintains a Web site that functions as a comprehensive directory of IPM resources.
- DPR assists school districts, child day care centers, and family day care homes to establish IPM policies and programs.
- DPR offers IPM training for public school districts, child day care centers, and family day care homes.

To find out more about these resources and pest management, visit DPR's School IPM Web site at www.schoolipm.info or e-mail DPR at school-ipm@cdpr.ca.gov.

Revised February 2014



¹The exemption applies to a pesticide product deployed in the form of a self-contained bait or trap, to gel or paste deployed as a crack and crevice treatment, to any pesticide exempted from regulation by the United States Environmental Protection Agency pursuant to the Federal Insecticide, Fungicide, and Rodenticide Act (7 U.S.C. Sec. 136 et seq.), or to antimicrobial pesticides, including sanitizers and disinfectants. For more information, visit DPR's School IPM Web site, www.schoolipm.info, and click on "Pesticides Exempted under the Healthy Schools Act" in the right-hand column.



Emergency County Hospitals:

Riverside Community Hospital

951-788-3000

4445 Magnolia Ave., Riverside, CA 92501

Pomona Valley Hospital

909-865-9500

1789 N. Garey Ave., Pomona, CA 91767

San Bernardino Community Hospital

909-887-6333

1805 N Medical Center Dr., San Bernardino, CA 92411

California Hospital Medical Center

213-748-2411

1401 S. Grand Ave., Los Angeles, CA 90012

Anaheim Memorial Medical Center

714-774-1450

1111 W. La Palma Ave., Anaheim, CA 92804

UC Irvine

714-456-7890

101 The City Dr., South, Orange, CA 92868

Villa View Community Hospital

619-265-9976

5550 University Ave., San Diego, CA 92105

PIH Health - Whittier

562-698-0811

12401 Washington Blvd., Whittier, CA 90602

Bright Medical Associates

626-964-6012

1850 S Azusa Ave # 300, Hacienda Heights, CA 91745

Emergency Contact Numbers:

Structural Pest Control Board: 916-561-8704

County Health Department: 626-430-5555

San Bernardino AG. Dept: 909-387-2115

Orange County Ag. Dept: 714-447-7100

Riverside Ag. Dept: 909-955-3000

NOTE: This is intended to provide a general guide to safe clean-up practices. For detailed instructions check with the local regulatory authorities and with appropriate material safety data sheets.

EMERGENCY SPILL PROCEDURES

Every employee handling pesticides is responsible for their safe use and application. In the event of a pesticide or rodenticide spill or misapplication you are responsible to make immediate and appropriate response designed to:

1. Minimize the immediate problem protecting yourself, others and the environment.
2. Notify the proper persons and authorities.
3. Insure complete and proper clean up and follow through.

You have purchased Target's Vehicle Spill Control Kit and/or Target's Branch Spill Control and Clean-up Kit. We recommend the kits to be used in conjunction with each other for the best spill handling.

Page two lists the equipment in each kit. Replacement parts can be ordered through Target. Some are also available from your local hardware or grocery store.

Pages 3-7 contain instructions for spill control and clean up.

EMERGENCY CLEAN-UP KITS

EMERGENCY PHONE NUMBERS

- | | |
|-------------------------------------|---------------|
| 1. Branch number/office number | _____ |
| 2. After hours number | _____ |
| 3. County Agricultural Commissioner | _____ |
| 4. Chemtrec | 1800-424-9300 |
| 5. Fire Department, CHP | 911 |
| 6. Local Hospitals | _____ |

BRANCH KIT Each branch kit contains most equipment necessary to contain and neutralize most organophosphate/ carbamate pesticide spills.

- | | |
|-------------------------------|---------------------------|
| -Spill procedures | - Disposable coveralls |
| -16 gallon drum | -6 each poly bag |
| -Broom and dust pan | - Barricade tape |
| -16" squeegee | -1 roll duct tape |
| -Collapsible shovel | - 1 quart bleach |
| -Spill Control (5 lbs) | -1 pint isopropyl alcohol |
| (Enough for 110 gallon spill) | -1 pint detergent |
| -Disposable respirator | - 8.8lbs lime |
| -Goggles, gloves, boots | -2 large sponges |
| -10'x50' poly tarp | -PT3 soap and water (9oz) |
| -1 permanent marking pen | |

VEHICLE KIT

Each vehicle kit contains most equipment necessary to contain most small pesticide spills. They are designed to minimize the spill and begin clean up until the branch kit arrives for further containment and neutralization.

- | | | |
|--------------------------------|---------------------------|---------------------------|
| -Spill procedures | -Latex boots | -1 roll duct tape |
| -Broom and dust pans | -Disposable coveralls | -1 quart bleach |
| -5 gallon drum | - 7" squeegee | -1 pint isopropyl alcohol |
| -Spill control (2.5lbs) | - 1permanent marking pen | -1 pint detergent |
| (enough for 55 gallons liquid) | -Barricade tape | -8.8 lbs lime |
| -2 large sponges | -PT3 soap and water (9oz) | |

EMERGENCY CLEAN-UP KITS

EMERGENCY PRODECURES

- A. REMOVE ALL PERSONS FROM SPILL AREA.
- B. ATTEND TP ANY URGENT MEDICAL NEEDS.
- C. NOTIFY BRANCH AND PROPER AUTHORITIES.
 - 1. Communicate directly with branch management if possible.
 - 2. If contact cannot be made, dial 911 directly.
 - 3. Be prepared to relay all details of the spill/misapplication including:
 - A. Any injuries or affected persons
 - B. Pesticide/ rodenticide type
 - C. Exact location of spill/ misapplication (include street address)
 - D. Type of surface(s) of which spill/misapplication occurred.
 - E. Description of all safety, first aid, practical treatment and containment procedures made thus far
 - F. What other authorities (if any) that have been notified.
 - 4. Notify you county agricultural commissioner (CA Admin. code-section 6634).
- D. CONTAIN THE SPILL/ MISAPPLICATION
 - 1. Wearing protective clothing and equipment (including: respirator, gloves, goggles, boots and coveralls) stop any additional spillage if possible.
 - 2. Small liquid spill: cover the entire spill area with absorbent.
 - 3. Large liquid spill: surround the entire spill area with an “absorbent dam” and then cover the center with absorbent.
 - 4. Solid or dust spill: sweep up all the spilled material. If it is windy, cover the spill area with the poly trap and secure it with rocks or other heavy objects on hand. When the wind has subsided, uncover the area a little at a time and sweep up the spilled material off of both the tarp and the spill surface.
- E. MARK OFF/BARRICADE AREA
 - 1. Inside spill: mark off contaminated area using duct tape.
 - 2. Outside spill: mark off and/or barricade contaminated area using string and whatever is available on the premises (rocks, heavy objects) to secure it.

NOTE: The branch kit contains barricade tape for this purpose.

EMERGENCY CLEAN-UP KITS

F. PICK UP SPILLED MATERIAL:

1. Liquid spill: using the squeegee, broom, and dust pan/ shovel, pick up all of the contaminated absorbent ("spill control" only) and put it into the drum or poly bags. If the material contains no other contaminants or foreign materials (dirt, etc.) it can be put into the rig tank and reused, thus generating no "hazardous waste."

NOTE: Agitate tank for a minimum of ten (10) minutes before spraying, ensuring a thorough mixture and check the line strainer several times during this process as it may require extra cleaning.

If the material does contain other contaminants for foreign materials it must be considered a "hazardous waste" and must be taken back to the branch for proper disposal.

Remember, all hazardous wastes must be properly packaged, labeled, and stored at the branch until arrangement are made for a professional hauler to pick them up and take them to Class I dump site.

2. Solid or dust spill: using the broom and dust pans/ shovel, pick up all of the spilled material. If the material contains no other contaminates or foreign materials it can be put back into the original container (if reusable) or into a properly labeled service container and reused. If the material does contain other contaminants or service container and reused. If the material does contain other contaminants or foreign materials, it must be considered a "hazardous waste" and is not reusable.

G. EMPLOYEES INVOLVED IN THE IN THE SPILL/ CLEAN-UP SHOULD CONSULT WITH THEIR OFFICE PRIOR TO COMMENTING TO THE NEWS MEDIA.

DECONTAMINATION OF SPILL AREA:

NOTE: As with spill containment and pick up procedures, persons performing decontamination procedures must wear all of the protective clothing and equipment provided. Decontamination can be specific to a pesticide. Refer to your **material safety data sheet or the manufacturer** of the product involved for specific decontamination instructions.

A. INSIDE SPILLING/ NON CARPETED AREA:

1. Prepare a strong solution of detergent and water. Add a small amount of isopropyl alcohol (approximately 10% to the solution.)
2. Wash affected area thoroughly using the sponge provided. **Don't use any more liquid than necessary to prevent additional chemical spread.**

EMERGENCY CLEAN-UP KITS

A. (Continued)

3. Soak up the solution with the sponge and empty into kit drum.
4. Repeat steps 2 and 3 two more times.
5. Rinse area with fresh water and soak up using a fresh sponge.
6. Empty all rinsate into the rig tank to be reusable.

NOTE: A dilute solution of bleach and water (approximately 10% bleach) will neutralize Dursban products. Be very careful to apply the solution to the affected area only and never apply it to carpeted or other sensitive surfaces. Also, never apply the solution in enclosed or other sensitive areas where the bleach odor may cause a lingering odor problem. Wash and rinse area following application as described in steps 1-6.

B. INSIDE SPILL/ CARPETED AREA

1. Absorb as much liquid as possible using the squeegee and sponge and empty into kit drum.
2. Empty all chemical into rig tank to be reused.
3. Contract a professional to steam clean the carpet. Inform them of the material to be clean up at this time.
4. Meet the carpet cleaner at the site and show of him the outlined area,
5. Empty rug cleaning residue into sink.

NOTE: Make every effort to have the carpeting cleaned while it is still wet as cleaning procedures will be more effective.

C. OUTSIDE SPILL/CONCRETE OR ASPHALT AREA.

1. Prepare a strong solution of detergent and water. Add a small amount of bleach (approximately 10% of the solution.)
2. Sprinkle a small amount of lime on the affected area.
3. Wash area thoroughly using the broom to mix the solution and lime together. **Don't use any more liquid than necessary.**
4. Pick up the slurry with the broom and shovel and empty into kit drum.

EMERGENCY CLEAN- UP KITS

C. (Continued)

5. Reapply the **liquid solution only** and wash area with broom.
6. Soak up the solution with the sponge or absorbent and empty into kit drum.
7. Repeat steps 5 and 6.
8. Rinse area with small amount of fresh water, soak up, and empty into kit drum. **Never “hose down” the area and always be sure that the chemical and/or its rinsate do not enter any bodies of water or sewer systems.**
9. Empty all rinsate into the rig tank to be reused.

D. OUTSIDE SPILL/SOIL AREA:

1. Remove contaminated earth to a depth of 3 inches below contamination.
2. Cover with a layer of lime.
3. Replace with a top layer of clean earth.
4. Pick up and dispose of the contaminated earth as a “hazardous waste.”

FOLLOW UP

- A. Management must insure complete and proper follow through until entire situation is complete and resolved.
- B. All follow action must be documented and filed.



"Achieving Sustainability in California
School Pest Management Is Our Goal"

**INTERGRATED PEST CONTROL
MANAGEMENT**

Intergrated Pest Control Management, Inc.
527 N. Azusa Ave., Covina, CA 91722
Office 626.618.6237 Fax 626.608.3276
Email: Info@ipcminc.com

Name of Pesticide Product	Active Ingredient(s)
INSECT CONTROL (1)	
Advion Cockroach Gel Bait	Indoxacarb .6%
Advion Ant Gel	Indoxacarb .05%
Advion Insect Granular	Indoxacarb 0.22%
Advion Fire Ant Bait	Indoxacarb 0.045%
Borid	Orthoboric Acid 99%
Delta Dust	Deltamethrin .05%
Demand CS	Lambda-cyhalothrin 9.7%
Exciter	Pyrethrins 6.0%
Gentrol IGR Concentrate	(S) Hydroprene 9%
M-Pede	Potassium Salts of Fatty
Niban/Niban FG	Orthoboric Acid 5.0%
Phantom	Chlorfenapyr 21.45%
Poison Free Wasp	Mint Oil 8%
Precore 2000	Methoprene .09% Permethrin .200%
PT 515 Wasp Freeze	D-transAllethrin .129% Phermethrin .200%
Pyrocide	N-Octyl Bicyclonheptene Dicerboximide, Piperonyl 1.0%
Tempo SC	Cyfluthrin 11.8%
Termidor SC	Fipronil:5-Amino-1-(2,6-Dichloro-4-(Trifluoromrthyl) Bifenthrin 7.9%
Transport Mikron Insecticide	Acetamiprid 5.0% Bifenthrin 6.0%
RODENT CONTROL (2)	
First Strike	Difethialone .0025%
Fumitoxin Tablets	Aluminum Phosphine 55%
Gopher Getter	Strychnine Alkaloid 50%
Terad3 AG Blox	Cholecalciferol 0.075%
Rozol Pocket Gopher Bait	Chlorophacinone 0.005%



Insecticide

INTENDED FOR USE BY COMMERCIAL APPLICATORS.

FOR USE IN RESIDENTIAL, INSTITUTIONAL, COMMERCIAL, AND INDUSTRIAL AREAS

Use sites include single and multi-family residential buildings, schools, commercial and industrial facilities (including warehouses, apartments, supermarkets, restaurants, motels, hotels, hospitals, food handling/ storage establishments), and transportation equipment such as aircraft, trains, ships, boats, buses.

Active Ingredient:

Indoxacarb:

(S)-methyl 7-chloro-2,5-dihydro-2-[[methoxycarbonyl] [4(trifluoromethoxy) phenyl]amino]carbonyl]indeno[1,2-e] [1,3,4]oxadiazine-4a-(3H)carboxylate 0.6%

Other Ingredients 99.4%

Total: 100.0%

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

DO NOT TREAT AREAS THAT ARE EASILY ACCESSIBLE TO CHILDREN AND PETS

EPA Reg. No. 100-1484
EPA Est. 54450-IL-001^{ABW}
EPA Est. 65335-RI-001^{NSP}

(Superscript is first three letters of batch code on container)
Product of USA

SCP 1484A-L1 0213

4 x 1.06 oz. (30g) syringes

**Net Weight
Non-refillable Container**



FIRST AID
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOT LINE NUMBER
For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call **1-800-888-8372**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

Physical and Chemical Hazards

Do not use this product in or on electrical equipment where a possibility of shock hazard exists.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

PRODUCT INFORMATION

Advion® Cockroach Gel Bait is designed to control pest species of cockroaches such as German, American, Australian, Smoky-Brown, Brown, Asian, Oriental, and Brown-Banded.

Use Instructions and Precautions:

Do not treat areas that are easily accessible to children and pets.

1. Advion Cockroach Gel Bait can be used indoors or outdoors applied as a crack and crevice treatment within residential homes, industrial facilities, offices, warehouses, commercial kitchens, hospitals, schools, nursing homes, hotels, buses, trains, aircraft, retail and commercial establishments, and other areas infested with cockroaches.
2. Apply Advion Cockroach Gel Bait to areas frequented by cockroaches such as between different elements of construction, between equipment and floors, openings leading into voids and hollow spaces in floors, walls, ceilings, equipment legs and bases, around plumbing pipes, doors and windows, and behind and under appliances, cabinets, sinks, closets, and any other equipment that cock- roaches are typically known to hide.
3. Do not apply Advion Cockroach Gel Bait to surfaces recently treated with residual sprays.
4. Do not apply residual sprays to surfaces treated with Advion Cockroach Gel Bait.
5. Inspect bait placements during follow-up inspections and apply fresh bait as needed.
6. Do not apply to surfaces that food contacts.
7. Do not allow open foods to contact gel material.

Treatment Rates for All Uses

- For heavy infestations of cockroaches, apply 3 to 5 spots of Advion Cockroach Gel Bait per 10 linear feet.
- For light to moderate infestations of cockroaches, apply 1-3 spots of Advion Cockroach Gel Bait per 10 linear feet.
- Each spot of ADVION® cockroach gel bait must equal about 0.5 grams (approx. 1/4" diameter)
- For all levels of cockroach infestations, when a bead of Advion Cockroach Gel Bait is used, apply a small thin bead that is less than 1/8" wide and approximately 2 inches long.

Indoor Use Directions

- Infested areas must be carefully inspected to determine overall infestation levels, locations of harborage areas, and most appropriate application points.
- Apply Advion Cockroach Gel Bait as a small spot of material, approximately 0.5 grams (approx. 1/4" in dia.), to areas not able to be contacted by children or pets.
- Several small applications distributed within an area are more effective than 1 or 2 applications of large quantities. In some cases a small thin bead (less than 1/8" wide and 2" long) may be appropriate such as between construction elements or other cracks and crevices.
- Indoor applications include cracks and crevices along walls or floors, behind or under equipment, under tables, within framing of tables or furniture, around sinks, within or near garbage collection areas, attics, crawl spaces, and cracks and crevices in cabinets.
- Inspect Advion Cockroach Gel Bait placements periodically for consumption or attractiveness and reapply as needed.

Applications in Nonfood/Nonfeed Handling Areas

Advion Cockroach Gel Bait is designed for use as a spot or crack and crevice treatment to control cockroaches in residential structures and the non-food /non-feed areas of commercial, industrial, public and institutional buildings/structures, including restaurants, warehouses, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, laboratories, computer facilities, aircraft, buses, boats/ships, trains, pet shops and zoos.

Nonfood/non-feed areas include areas such as garbage rooms, laboratories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning). Refer to section below for use directions and restrictions when making applications in food/feed handling areas of Food/Feed Handling Establishments.

Applications in Food/Feed Handling Areas

Application to food/feed areas of food/feed handling establishments may only be made as a crack and crevice treatment only. Apply Advion Cockroach Gel Bait directly into cracks and crevices by placing the bait dispenser tip approximately 1/2 inch into cracks, crevices, holes and similar openings where cockroaches are found or are entering.

Food and feed handling areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

- Do not apply Advion Cockroach Gel Bait to areas where food/feed, food utensils or food processing surfaces may come into contact and become contaminated.
- Do not apply Advion Cockroach Gel Bait to areas that are routinely washed such as cracks and crevices in tops of tables, food/feed preparation and prepared food holding surfaces as bait could be removed by the washing.
- Do not apply Advion Cockroach Gel Bait to surfaces where the temperature exceeds 120-130°F because this could cause the bait to liquefy and lose effectiveness.
- Examples include, but are not limited to, parts of stoves, ovens, grills, fume hoods, saunas, heat lamps, coffee urns, steam tables, toasters, fryers, dishwashers, and hot water pipes.
- Use good application practice to avoid movement of Advion Cockroach Gel Bait to exposed surfaces used for food preparation.
- If Advion Cockroach Gel Bait contacts an exposed surface, first remove as much of the gel bait as possible, then wash with soap and water.

Outdoor Use Directions:

A thorough inspection around a structure may reveal areas where cockroaches are gaining access. Attempts should be made to remove the access. Advion Cockroach Gel Bait may also be applied as a spot or thin bead (see above) to pest entry sites such as along windows, doors, between construction elements, sewer areas, adjacent trees which harbor cockroaches, along walls, garbage holding areas, or suitable placement site acting as a cockroach harborage. Place baits in such a way as to reduce the potential of subsequent human contact. Inspect Advion Cockroach Gel Bait placements periodically and apply fresh bait as needed.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

Pesticide Storage

Store in cool, dry place inaccessible to children and pets.

Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal

Nonrefillable Container: Do not reuse or refill this container. Offer for recycling if available. Place empty bait dispensers in trash. If partially filled, wrap in newspaper and discard in trash or call your local solid waste authority for disposal instructions.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and of Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

Advion®, the ALLIANCE FRAME 
the SYNGENTA Logo and the PURPOSE ICON 
are Trademarks of a Syngenta Group Company

©2013 Syngenta

For non-emergency (e.g., current product information),
call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

SCP 1484A-L1 0213

ADVION® COCKROACH GEL BAIT

Date: 4/2/2015
 Replaces: 11/1/2013

1. PRODUCT IDENTIFICATION

Product identifier on label: **ADVION® COCKROACH GEL BAIT**

Product No.: A20379B

Use: Insecticide

Manufacturer: Syngenta Crop Protection, LLC
 Post Office Box 18300
 Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications: Not Applicable

Signal Word (OSHA): Not Applicable

Hazard Statements: Not Applicable

Hazard Symbols:

Precautionary Statements: Not Applicable

Other Hazard Statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other ingredients	Other ingredients	Trade Secret	99.4%
methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)[4- (trifluoromethoxy)phenyl]amino]carbonyl]in deno[1,2-e][1,3,4]oxadiazine-4a(3H)- carboxylate	Indoxacarb Technical	173584-44-6	0.6%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

ADVION® COCKROACH GEL BAIT

Date: 4/2/2015
Replaces: 11/1/2013

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Eye Contact: If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Not Applicable

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

Persons suffering a temporary allergic reaction may respond to treatment with antihistamines or steroid creams and/or systemic steroids.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

ADVION® COCKROACH GEL BAIT

Date: 4/2/2015
Replaces: 11/1/2013

Conditions for safe storage, including any incompatibilities:
Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb Technical	Not Established	Not Established	1 mg/m ³ 8hr & 12hr TWA (respirable)	Manufacturer

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely use splash-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown gel

Odor: Slight

Odor Threshold: Not Available

pH: 5.4

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Available

Flash Point (Test Method): > 212°F

Flammable Limits (% in Air): Not Available

Flammability: Not Applicable

Vapor Pressure: Indoxacarb Technical Not Available

Vapor Density: Not Available

Relative Density: 1.123 g/ml @ 72°F (22°C)

ADVION® COCKROACH GEL BAIT

Date: 4/2/2015
 Replaces: 11/1/2013

Solubility (ies): Indoxacarb Technical Not Available
 Partition coefficient: n-octanol/water: Not Available
 Autoignition Temperature: Not Available
 Decomposition Temperature: Not Available
 Viscosity: Not Available
 Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
 Chemical stability: Stable under normal use and storage conditions.
 Possibility of hazardous reactions: Will not occur.
 Conditions to Avoid: Not Available
 Incompatible materials: None known.
 Hazardous Decomposition Products: Not Available

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Not Applicable

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Female Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 5000 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	> 5.5 mg/l air - 4 hours (applies to the active ingredient)
Eye Contact:	Non-Irritating (Rabbit)	
Skin Contact:	Non-Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Mouse)	

Reproductive/Developmental Effects

Indoxacarb Technical: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
 Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

ADVION® COCKROACH GEL BAIT

Date: 4/2/2015
 Replaces: 11/1/2013

Chronic/Subchronic Toxicity Studies

Indoxacarb Technical: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.
 Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

Carcinogenicity

Indoxacarb Technical: Animal testing did not show any carcinogenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 Did not cause genetic damage in animals.

Chemical Name	NTP/IARC/OSHA Carcinogen
---------------	--------------------------

Other ingredients	No
-------------------	----

methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)[4- (trifluoromethoxy)phenyl]amino]carbonyl]inden o[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	No
--	----

Other Toxicity Information

None

Toxicity of Other Components

Other ingredients
 Not Applicable

Target Organs

Active Ingredients

Indoxacarb Technical: Nervous system

Inert Ingredients

Other ingredients: Not Applicable

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Indoxacarb Technical:

Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l
 Bird (Bobwhite Quail) LD50 Oral 98 mg/kg
 Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

Environmental Fate

Indoxacarb Technical:

Information given is based on data on the components and the ecotoxicology of similar products.
 Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

ADVION® COCKROACH GEL BAIT

Date: 4/2/2015
 Replaces: 11/1/2013

Characteristic Waste: Not Applicable
 Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
 Ground Transport - NAFTA
 Not regulated

Comments
 Water Transport - International
 Not regulated.

Air Transport
 Not regulated.

15. REGULATORY INFORMATION

Pesticide Registration:
 This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Keep out of reach of children.

EPA Registration Number(s):
 Not Applicable

EPCRA SARA Title III Classification:
 Section 311/312 Hazard Classes: Acute Health Hazard
 Section 313 Toxic Chemicals: None

CERCLA/SARA 304 Reportable Quantity (RQ):
 Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):
 Not Applicable

TSCA Status:
 Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
 Flammability: 1
 Instability: 0

HMIS Hazard Ratings

Health: 1
 Flammability: 1
 Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme
*	Chronic

Syngenta Hazard Category: B

ADVION® COCKROACH GEL BAIT

Date: 4/2/2015
Replaces: 11/1/2013

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 8/6/2013
Revision Date: 4/2/2015 Replaces: 11/1/2013
Section(s) Revised: 1-16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.



Insecticide

INTENDED FOR USE BY COMMERCIAL APPLICATORS.

FOR USE IN RESIDENTIAL, INSTITUTIONAL, COMMERCIAL, AND INDUSTRIAL AREAS

Use sites include single and multi-family residential buildings, schools, commercial and industrial facilities (including warehouses, apartments, supermarkets, restaurants, motels, hotels, hospitals, zoos, food handling/storage establishments), and transportation equipment such as aircraft, trains, ships, boats, buses.

Active Ingredient:

Indoxacarb*
(S)-methyl 7-chloro-2,5-dihydro-2-[[[(methoxycarbonyl) [4(trifluoromethoxy) phenyl]amino] carbonyl]indeno[1,2-e] [1,3,4]oxadiazine-4a-(3H)carboxylate 0.05%

Other Ingredients 99.95%

Total: 100.00%

*Indoxacarb belongs to the oxadiazine chemical class.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

DO NOT TREAT AREAS THAT ARE EASILY ACCESSIBLE TO CHILDREN AND PETS

EPA Reg. No. 100-1498
EPA Est. 54450-IL-001^{ABW}
EPA Est. 65335-RI-001^{NSP}

(Superscript is first three letters of batch code on container)

Product of USA

SCP 1498A-L1 0213

4 x 1.06 oz. (30g) syringes

**Net Weight
Non-refillable Container**



FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOT LINE NUMBER

For 24-Hour Medical Emergency Assistance (Human or Animal) Or Chemical Emergency Assistance (Spill, Leak, Fire or Accident) Call **1-800-888-8372**

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

Physical and Chemical Hazards

Do not use this product in or on electrical equipment where a possibility of shock hazard exists.

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

PRODUCT INFORMATION

Advion® Ant Gel is specifically formulated to be attractive to all major pest species of ants such as Acrobat, Argentine, Big-headed, Carpenter, Cornfield, Crazy, Field, Ghost, Harvester*, Honey, Little black, Odorous house, Pavement, Pharaoh*, Pyramid, Red Imported Fire Ant*, Rover, Thief, and White-footed. Advion Ant Gel contains the active ingredient, indoxacarb, a non-repellent insecticide. Use of Advion Ant Gel will help eliminate ants within days of applying the gel according to the use directions.

* Advion Ant Gel is effective at killing Pharaoh ants, foraging red imported fire ants and harvester ants. For complete control of outdoor nests of these species, use additional treatments labeled for outdoor nest control of these species.

Use Instructions and Precautions: Do not treat areas that are easily accessible to children and pets.

1. Advion Ant Gel can be used indoors or outdoors applied as a crack and crevice or spot treatment in single and multi-family residential homes, institutional, commercial and industrial facilities (including schools, warehouses, apartments, supermarkets, restaurants, motels, hotels, hospitals, nursing homes, offices, zoos, retail establishments, food handling/storage establishments), transportation equipment such as aircraft, trains, ships, boats, and buses, and other similar sites where ant infestations are a problem.
2. Avoid applying Advion Ant Gel to surfaces recently treated with residual sprays.
3. Surfaces treated with Advion Ant Gel should not be treated with residual sprays.
4. Inspect applications periodically for consumption/activity and apply additional bait as needed.
5. Do not apply to surfaces that food contacts.
6. Do not allow open foods to contact gel material.

7. Refillable Bait Stations: Advion Ant Gel may be used in commercially available refillable bait stations designed for interior and/or exterior or perimeter insect pest control. If the refillable bait station is not equipped with a sticker to identify the contents, apply a sticker either on the interior or exterior of the device. For best results, position refill- able bait stations near ant trails, nest sites, or where ants are known to actively forage. Regularly inspect each refillable bait stations and replace with Advion Ant Gel as needed for continual control of ants.

Treatment Rates for All Uses

- Apply Advion Ant Gel as spots of gel or small lines of gel.
- Placements of spots or lines of Advion Ant Gel should be to active foraging trails, nest sites, or to areas known to be active.
- Apply 0.1 to 1.0 gram spots of Advion Ant Gel or approximately 1/4" in diameter spots.
- Apply lines of Advion Ant Gel of approximately 1/8" wide and 2" long; up to 3" long for highly active foraging trails.
- Apply as many placements of Advion Ant Gel as possible to active foraging areas without disrupting the natural foraging behavior of ants.
- If Advion Ant Gel is used in refillable bait stations apply an amount of the Advion Ant Gel that does not exceed the capacity of the refillable bait station's bait reservoir.

Examples of Advion Ant Gel Placement Amounts



Figure 1: Line of gel approx. 1/8" x 2"



Figure 2: Spot of gel approx. 0.1g



Figure 3: Spot of gel approx. 1g

Indoor Use Directions

- Inspect infested areas carefully to determine overall infestation levels, locations of foraging, nesting areas, and most appropriate application points.
- Indoor applications include cracks and crevices along walls or floors, behind or under equipment or appliances, under tables, within framing of tables or furniture, around sinks, within or near garbage collection areas, attics, crawl spaces, and cracks and crevices in cabinets.
- Inspect Advion Ant Gel placements periodically for consumption or attractiveness and reapply as needed.

Applications in Nonfood/Nonfeed Handling Areas

Advion Ant Gel is designed for use as a spot or crack and crevice treatment to control ants in residential structures and the non-food/non-feed areas of commercial, industrial, public and institutional buildings/structures, including restaurants, warehouses, food processing plants, supermarkets, hospitals, nursing homes, motels, hotels, schools, laboratories, computer facilities, aircraft, buses, boats/ships, trains, pet shops and zoos.

Nonfood/non-feed areas include areas such as garbage rooms, lavatories, floor drains (to sewers), entries, and vestibules, offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after bottling or canning). Refer to section below for use directions and restrictions when making applications in food/feed handling areas of Food/Feed Handling Establishments.

Applications in Food/Feed Handling Areas

Application to food/feed areas of food/feed handling establishments may only be made as a crack and crevice treatment. Apply Advion Ant Gel directly into cracks and crevices by placing the bait dispenser tip approximately 1/2 inch into cracks, crevices, holes and similar openings where ants are found or are entering. Food and feed handling areas include areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas are also considered a food/feed area when food is exposed and facility is in operation.

- Do not apply Advion Ant Gel to areas where food/feed, food utensils or food processing surfaces may come into contact and become contaminated.
- Do not apply Advion Ant Gel to areas that are routinely washed such as cracks and crevices in tops of tables, food/feed preparation and prepared food holding surfaces as bait could be removed by the washing.
- Do not apply Advion Ant Gel to surfaces where the temperature exceeds 120-130°F because this could cause the bait to liquefy and lose effectiveness.
- Examples include, but are not limited to, parts of stoves, ovens, grills, fume hoods, saunas, heat lamps, coffee urns, steam tables, toasters, fryers, dishwashers, and hot water pipes.
- Use good application practice to avoid movement of Advion Ant Gel to exposed surfaces used for food preparation.

If Advion Ant Gel contacts an exposed surface, first remove as much of the gel bait as possible, then wash with soap and water.

Outdoor Use Directions:

- A thorough inspection around a structure may reveal areas where ants are gaining access to the structure. Attempts should be made to remove the access.
- Apply Advion Ant Gel as a spot or thin bead (see above) to pest entry sites such as along windows, doors, between construction elements, sewer areas, adjacent trees which harbor ants, along walls, garbage holding areas, or suitable placement site acting as an ant harborage.
- Make Advion Ant Gel placements to reduce the potential of subsequent human contact.
- Inspect Advion Ant Gel placements periodically and apply fresh ant gel as needed.
- High temperatures may affect the consistency of the gel after placement. so inspect to determine if additional gel is needed.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal.

Pesticide Storage

Store in cool, dry place inaccessible to children and pets.

Pesticide Disposal

Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Container Disposal

Nonrefillable Container: Do not reuse or refill this container. Offer for recycling if available. Place empty bait dispensers in trash. If partially filled, wrap in newspaper and discard in trash or call your local solid waste authority for disposal instructions.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and of Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

Advion®, the ALLIANCE FRAME  the SYNGENTA Logo and the PURPOSE ICON  are Trademarks of a Syngenta Group Company

©2013 Syngenta

For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300
SCP 1498A-L1 0213

ADVION ANT GEL

Date: 3/18/2014
 Replaces: 11/1/2013

1. PRODUCT IDENTIFICATION

Product identifier on label: **ADVION ANT GEL**
 Product No.: A20377A
 Use: Insecticide
 Manufacturer: Syngenta Crop Protection, LLC
 Post Office Box 18300
 Greensboro NC 27419
 Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications:

Signal Word (OSHA): Not Applicable

Hazard Statements: Not Applicable

Hazard Symbols:

Precautionary Statements: Not Applicable

Other Hazard Statements: None

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other inert ingredients	Other inert ingredients	Not Applicable	99.95%
methyl (4aS)-7-chloro-2,5-dihydro-2- [[methoxycarbonyl][4- (trifluoromethoxy)phenyl]amino]carbonyl]in deno[1,2-e][1,3,4]oxadiazine-4a(3H)- carboxylate	Indoxacarb Technical	173584-44-6	0.05%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

- Ingestion: If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Eye Contact: If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Skin Contact: If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.
- Inhalation: If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Not Applicable

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Cover entire spill with absorbing material and place into compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Conditions for safe storage, including any incompatibilities:

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other inert ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb Technical	Not Established	Not Established	1 mg/m ³ 8hr & 12hr TWA (respirable)	Manufacturer

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely use dust-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Off-white, opaque gel

Odor: Very faint

Odor Threshold: Not Available

pH: 7.2 (1% solution in H₂O)

Melting point/freezing point: Not Available

Initial boiling point and boiling range: Not Available

Flash Point (Test Method): Not Available

Flammable Limits (% in Air): Not Available

Flammability: Not Available

Vapor Pressure: Indoxacarb Technical Not Available

Vapor Density: Not Available

Relative Density: 1.15 - 1.24 g/ml @ ca.185°F (85°C)

ADVION ANT GEL

Date: 3/18/2014
 Replaces: 11/1/2013

Solubility (ies): Indoxacarb Technical Not Available
 Partition coefficient: n-octanol/water: Not Available
 Autoignition Temperature: Not Available
 Decomposition Temperature: Not Available
 Viscosity: Not Available
 Other: Not Available

10. STABILITY AND REACTIVITY

Reactivity: Not Applicable
 Chemical stability: Stable under normal use and storage conditions.
 Possibility of hazardous reactions: Will not occur.
 Conditions to Avoid: Not Available
 Incompatible materials: Not Available
 Hazardous Decomposition Products: Not Available

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Not Applicable

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Female Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 5000 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	> 5.5 mg/l 4 hrs (applies to technical dry material)
Eye Contact:	Non-Irritating (Rabbit)	
Skin Contact:	Non-Irritating (Rabbit)	
Skin Sensitization:	Not a Sensitizer (Mouse)	

Reproductive/Developmental Effects

Indoxacarb Technical: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
 Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

Chronic/Subchronic Toxicity Studies

Indoxacarb Technical: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

Carcinogenicity

Indoxacarb Technical: Animal testing did not show any carcinogenic effects.
Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
Did not cause genetic damage in animals.

Chemical Name	NTP/IARC/OSHA Carcinogen
Other inert ingredients	No
methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)[4- (trifluoromethoxy)phenyl]amino]carbonyl]inden o[1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	No

Other Toxicity Information

None

Toxicity of Other Components

Other inert ingredients
Not Applicable

Target Organs

Active Ingredients

Indoxacarb Technical: Nervous system

Inert Ingredients

Other inert ingredients: Not Applicable

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Indoxacarb Technical:

Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l

Bird (Bobwhite Quail) LD50 Oral 98 mg/kg

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

Environmental Fate

Indoxacarb Technical:

Information given is based on data on the components and the ecotoxicology of similar products.

Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

ADVION ANT GEL

Date: 3/18/2014
 Replaces: 11/1/2013

Characteristic Waste: Not Applicable
 Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
 Ground Transport - NAFTA
 Not regulated

Comments
 Water Transport - International
 Not regulated

Air Transport
 Not regulated

15. REGULATORY INFORMATION

Pesticide Registration:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling.

EPA Registration Number(s):
 100-1498

EPCRA SARA Title III Classification:

Section 311/312 Hazard Classes: Acute Health Hazard

Section 313 Toxic Chemicals: None

California Proposition 65:
 Not Applicable

CERCLA/SARA 304 Reportable Quantity (RQ):
 Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):
 Not Applicable

TSCA Status:
 Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
 Flammability: 1
 Instability: 0

HMIS Hazard Ratings

Health: 1
 Flammability: 1
 Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme

Syngenta Hazard Category: A

ADVION ANT GEL

Date: 3/18/2014
Replaces: 11/1/2013

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 2/22/2013

Revision Date: 3/18/2014

Replaces: 11/1/2013

Section(s) Revised: 1 - 16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.



Insecticide

A granular insecticide bait for use to control crickets, including mole crickets, on lawns in residential, commercial, public and institutional landscaped areas, golf courses, parks, recreational areas, and sports and/or athletic fields; cockroaches, and listed crawling nuisance or occasional invader insect pests in crawl spaces, attics, basements of buildings or structures.

Active Ingredient:
Indoxacarb
(S)-methyl 7-chloro-2,5-dihydro-2-[[[(methoxycarbonyl)[4(trifluoromethoxy)phenyl]amino]carbonyl]indeno[1,2-e][1,3,4]oxadiazine-4a-(3H)carboxylate 0.22%

Other Ingredients 99.78%

Total: 100.00%

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUCIÓN

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

EPA Reg. No. 100-1483
EPA Est. No. 67572-GA-1

Product of USA

SCP 1483A-L1B 0414



FIRST AID
Have the product container or label with you when calling a poison control center or doctor, or going for treatment
HOT LINE NUMBER
For 24-Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call
1-800-888-8372

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Avoid contact with skin, eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

- Shoes plus socks.
- Long-sleeved shirt and long pants are required when using hand-held application equipment.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS
USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment rinsewater. Do not apply where/when conditions could favor runoff. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Not for use on turfgrass being grown for sale or other commercial use, or for commercial seed production. For use on turfgrass intended for aesthetic purposes or climate modification and being grown in lawns, grounds, golf courses, recreational areas and athletic fields.

Advion® Insect Granule must only be used in accordance with the Directions For Use on this label.

USE RESTRICTIONS

- Not for use on turfgrass that is being grown for seed or on commercial sod farms.
- Not for use in nurseries and greenhouses
- Do not allow livestock or domestic animals to consume the bait or graze in treated areas.
- Do not apply this product through any type of irrigation system.
- Do not exceed 200 total pounds of Advion Insect Granule (0.44 lb active ingredient) per acre per season for broadcast applications in turfgrass.
- Do not formulate this product into other end-use products.

When to apply outdoors for cricket control:

Advion Insect Granule contains the active ingredient indoxacarb in a formulation that is highly attractive to house crickets, field crickets and mole cricket adults and nymphs. Advion Insect Granule should be applied in the spring to control adult mole crickets before they lay eggs and in the late summer and fall to control large nymphs and newly emerged adults. For best results, apply in late afternoon to areas of turfgrass that are infested with mole crickets. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets to the soil surface where exposure to Advion Insect Granule will be maximized. For optimal effectiveness, allow grass that is wet with dew, rainfall or irrigation to dry before application. Rainfall or irrigation within 2 to 3 days after application may reduce the effectiveness of Advion Insect Granule.

SPECIFIC USE DIRECTIONS

Outdoor Broadcast Application: Advion Insect Granule may be applied as a broadcast application at the rate of 50 to 200 pounds of product per acre. Calibrate and adjust equipment prior to application to ensure that the proper rate of product is uniformly applied over the treatment area. Repeat application after 7 days, if necessary.

Outdoor Broadcast Application Rates

Application Sites	Pest Controlled	Pounds Product Per 1,000 sq ft	Pounds Product Per Acre	Lb AI/A
Turfgrasses grown for aesthetic or recreational purposes or climatic modification in or around home lawns, residential dwellings, business and office complexes, shopping complexes, multi-family residential complexes, institutional buildings, airports, cemeteries, parks, playgrounds, schools, golf courses (tee box areas, roughs, fairways, greens, collars etc.), sports and/or athletic fields, and other similar landscape turf areas	mole cricket adults and nymphs <i>Scapteriscus</i> spp., house crickets, field crickets, earwigs, silverfish and ants (except red imported fire ants, harvester ants, carpenter ants and pharaoh ants)	1.15 to 4.6*	50 to 200	0.11 to 0.44
	cockroaches***	2.3 to 4.6**	100 to 200	0.22 to 0.44

* Equivalent to 1.84 to 7.36 oz/100 sq ft.

** Equivalent to 3.86 to 7.36 oz/100 sq ft.

*** Minimum rate for cockroaches is 2.3 lb/1,000 sq ft equivalent to 3.86 oz/100 sq ft.

Perimeter Application: To control pests, listed in table above, apply to ground area in a band up to 10 feet wide around and adjacent to the structure.

Boundary Application: To control pests, listed in table above, apply to soil areas, fence lines, ornamental gardens, pavement crevices, planter areas, vegetation areas and mulch areas.

Perimeter Application Rates

Application Rate: Pounds Per 1,000 sq ft	Band Width	Pounds of Advion® Insect Granule for Perimeter Applications Linear Distance (feet) Around Structure							
		100	150	200	250	300	400	500	1000
1.15	5 feet	0.7	1.0	1.3	1.6	1.8	2.4	3.0	5.9
1.15	10 feet	1.5	2.1	2.7	3.3	3.8	4.8	6.1	11.8
2.3	5 feet	1.3	1.9	2.5	3.1	3.6	4.8	5.9	11.7
2.3	10 feet	3.0	4.2	5.3	6.5	7.6	9.9	12.2	23.7
3.0	5 feet	1.7	2.5	3.2	4.0	4.7	6.2	7.7	15.2
3.0	10 feet	3.9	5.4	6.9	8.4	9.9	12.9	15.9	30.9
3.5	5 feet	2.0	2.9	3.8	4.6	5.5	7.3	9.0	17.8
3.5	10 feet	4.6	6.3	8.1	9.8	11.6	15.1	18.6	36.1
4.0	5 feet	2.3	3.3	4.3	5.3	6.3	8.3	10.3	20.3
4.0	10 feet	5.3	7.3	9.3	11.3	13.3	17.3	21.3	41.3
4.6	5 feet	2.7	3.8	5.0	6.1	7.3	9.6	11.9	23.4
4.6	10 feet	6.0	8.3	10.6	12.9	15.2	19.8	24.4	47.4

INDOOR APPLICATION

Advion Insect Granule may be used to control house crickets, field crickets, earwigs, silverfish and ants (except red imported fire ants, harvester ants, carpenter ants and pharaoh ants) in crawl spaces, basements and attics of residential, industrial and commercial buildings or structures. Advion Insect Granule will kill cockroaches that consume the bait granules when placed in crawl spaces and basements of residential, industrial and commercial buildings or structures, but this type of application alone is not intended to provide complete control of an indoor cockroach infestation.

Crawl Spaces

Target Pests: house crickets, field crickets, cockroaches, earwigs, and ants (except red imported fire ants, harvester ants, carpenter ants and pharaoh ants)

Perimeter- Apply Advion Insect Granule along the edge of crawl space in a band approximately 6 to 12 inches wide at rate of 2 oz bait granules per 10 linear feet. Monitor the crawlspace area treated and reapply bait granules only as needed.

Broadcast- Apply Advion Insect Granule as broadcast treatment at rate of 1.15 lb granules per 1,000 sq ft. The minimum application rate for cockroaches is 2.3 lb bait granules per 1,000 sq ft, equivalent to 3.86 oz per 100 sq ft. Monitor the crawlspace area treated and reapply bait granules only as needed.

Basements

Target Pests: house crickets, field crickets, cockroaches, earwigs, and ants (except red imported fire ants, harvester ants, carpenter ants and pharaoh ants)

For unfinished basements not actively used as living area, apply bait granules along the edge of walls in a band approximately 6 to 12 inches wide at rate of 2 oz bait granules per 10 linear feet. Avoid areas accessible to children and pets. Monitor the area treated and reapply bait granules only as needed. See instructions below for use of bait stations in finished and unfinished basements.

Apply Advion Insect Granule in finished or unfinished basements using bait stations. Place 2 - 4 oz of bait granules in each bait station, depending on the bait station design and size. Apply Advion Insect Granule in basements by using commercially available bait stations designed for bait granule formulation insecticides. Place bait stations containing the granules in areas of the basement that are accessible to insect pests but not accessible to children and pets. Monitor the bait stations and replace bait granules as needed.

Do not allow Advion Insect Granule to contact any food or feed being stored in an unfinished or finished basement.

Attics

Target Pests: house crickets, field crickets, and silverfish

Apply Advion Insect Granule only to attic space not being used as living area at rate of 1.15 lb per 1,000 sq ft as a broadcast treatment using a hand spreader. Monitor the attic area treated and reapply bait granules only as needed. Advion Insect Granule may also be applied in attics by using commercial bait stations designed to hold bait granule insecticide products. Place 2 - 4 oz of bait in each bait station, depending on the bait station design and size. The number of bait stations placed in the attic space will depend on the level of the infestation. Monitor the bait stations and replace bait granules as needed.

STORAGE AND DISPOSAL

Prohibitions

Do not contaminate water, food or feed by storage and disposal.

Pesticide Storage

Store product in original container only in a location inaccessible to children and domestic animals/pets. Store in a cool, dry place and avoid excessive heat.

Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility

Container Disposal

Nonrefillable container. Do not reuse or refill this container. Completely empty plastic container, plastic bag or fiber sack into application equipment by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling, if available or dispose of plastic container, plastic bag or fiber sack in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. TO THE EXTENT PERMITTED BY APPLICABLE LAW, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

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the SYNGENTA Logo
and the PURPOSE ICON 
are Trademarks of a
Syngenta Group Company

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For non-emergency (e.g., current product information), call
Syngenta Crop Protection at 1-800-334-9481

Manufactured for:
Syngenta Crop Protection, LLC
P.O. Box 18300
Greensboro, North Carolina 27419-8300

ADVION® INSECT GRANULE

Date: 4/2/2015
 Replaces: 11/1/2013

1. PRODUCT IDENTIFICATION

Product identifier on label: **ADVION® INSECT GRANULE**

Product No.: A20381A

Use: Insecticide

Manufacturer: Syngenta Crop Protection, LLC
 Post Office Box 18300
 Greensboro NC 27419

Manufacturer Phone: 1-800-334-9481

Emergency Phone: 1-800-888-8372

2. HAZARDS IDENTIFICATION

Classifications: Not Applicable

Signal Word (OSHA): Not Applicable

Hazard Statements: Not Applicable

Hazard Symbols:

Precautionary Statements: Not Applicable

Other Hazard Statements: May form combustible dust concentrations in air.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Name	Common Name	CAS Number	Concentration
Other ingredients	Other ingredients	Trade Secret	99.78%
methyl (4aS)-7-chloro-2,5-dihydro-2- [[[(methoxycarbonyl)[4- (trifluoromethoxy)phenyl]amino]carbonyl]in deno[1,2-e][1,3,4]oxadiazine-4a(3H)- carboxylate	Indoxacarb Technical	173584-44-6	0.22%

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

ADVION® INSECT GRANULE

Date: 4/2/2015

Replaces: 11/1/2013

4. FIRST AID MEASURES

Have the product container, label or Safety Data Sheet with you when calling Syngenta (800-888-8372), a poison control center or doctor, or going for treatment.

Ingestion: If swallowed: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Eye Contact: If in eyes: Rinse eyes with water. First aid measures are not normally required. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Skin Contact: If on skin or clothing: First aid measures are not normally required. Wash material from the skin. If concerned, call Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Inhalation: If inhaled: First aid measures are not normally required. If you feel unwell or have concerns, contact Syngenta (800-888-8372), a poison control center or doctor for treatment advice.

Most important symptoms/effects:

Not Applicable

Indication of immediate medical attention and special treatment needed:

There is no specific antidote if this product is ingested.

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Suitable (and unsuitable) extinguishing media:

Use dry chemical, foam or CO2 extinguishing media. If water is used to fight fire, dike and collect runoff.

Specific Hazards:

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

Special protective equipment and precautions for firefighters:

Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment, and emergency procedures:

Follow exposure controls/personal protection outlined in Section 8.

Methods and materials for containment and cleaning up:

Avoid dust formation.

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

Precautions for safe handling:

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

ADVION® INSECT GRANULE

Date: 4/2/2015
 Replaces: 11/1/2013

Conditions for safe storage, including any incompatibilities:
 Not Applicable

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION AND PACKAGING OF THIS PRODUCT.

FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

Occupational Exposure Limits:

Chemical Name	OSHA PEL	ACGIH TLV	Other	Source
Other ingredients	Not Applicable	Not Applicable	Not Applicable	Not Applicable
Indoxacarb Technical	Not Established	Not Established	1 mg/m ³ 8hr & 12hr TWA (respirable)	Manufacturer

Appropriate engineering controls:

Use effective engineering controls to comply with occupational exposure limits (if applicable).

Individual protection measures:

Ingestion:

Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

Eye Contact:

Where eye contact is likely use dust-proof chemical goggles.

Skin Contact:

Where contact is likely, wear chemical-resistant gloves (such as barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, natural rubber, polyvinyl chloride [PVC] or Viton), coveralls, socks and chemical-resistant footwear.

Inhalation:

A respirator is not normally required when handling this substance.

In case of emergency spills, use a NIOSH approved respirator with any N, R, P or HE filter.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Brown granules
 Odor: Slight
 Odor Threshold: Not Available
 pH: 6.6
 Melting point/freezing point: Not Available
 Initial boiling point and boiling range: Not Available
 Flash Point (Test Method): Not Available
 Flammable Limits (% in Air): Not Available
 Flammability: Not Available
 Vapor Pressure: Indoxacarb Technical Not Available
 Vapor Density: Not Available
 Relative Density: 0.696 g/ml (bulk density)

ADVION® INSECT GRANULE

Date: 4/2/2015
 Replaces: 11/1/2013

Solubility (ies): Indoxacarb Technical Not Available
 Partition coefficient: n-octanol/water: Not Available
 Autoignition Temperature: Not Available
 Decomposition Temperature: Not Available
 Viscosity: Not Available
 Other: None

10. STABILITY AND REACTIVITY

Reactivity: Not reactive.
 Chemical stability: Stable under normal use and storage conditions.
 Possibility of hazardous reactions: Will not occur.
 Conditions to Avoid: Not Available
 Incompatible materials: None known.
 Hazardous Decomposition Products: Not Available

11. TOXICOLOGICAL INFORMATION

Health effects information

Likely routes of exposure: Dermal, Inhalation

Symptoms of exposure: Not Applicable

Delayed, immediate and chronic effects of exposure: Not Applicable

Numerical measures of toxicity (acute toxicity/irritation studies (finished product))

Ingestion:	Oral (LD50 Female Rat) :	> 5000 mg/kg body weight
Dermal:	Dermal (LD50 Rat) :	> 5000 mg/kg body weight
Inhalation:	Inhalation (LC50 Rat) :	> 5.5 mg/l 4 hrs (applies to technical dry material)
Eye Contact:	Non-Irritating (Rabbit)	
Skin Contact:	Non-Irritating (Rabbit)	
Skin Sensitization:	Animal test did not cause sensitization by skin contact. (Guinea Pig)	

Reproductive/Developmental Effects

Indoxacarb Technical: Animal testing showed effects on reproduction at levels equal to or above those causing parental toxicity.
 Animal testing showed effects on embryo-fetal development at levels equal to or above those causing maternal toxicity.

ADVION® INSECT GRANULE

Date: 4/2/2015
 Replaces: 11/1/2013

Chronic/Subchronic Toxicity Studies

Indoxacarb Technical: The following effects occurred at levels of exposure that significantly exceed those expected under labeled usage conditions.

Inhalation; rat; Incoordination, mortality, red blood cell destruction causing abnormal decrease in number of red blood cells (anemia)

Carcinogenicity

Indoxacarb Technical: Animal testing did not show any carcinogenic effects.
 Tests on bacterial or mammalian cell cultures did not show mutagenic effects.
 Did not cause genetic damage in animals.

Chemical Name	NTP/IARC/OSHA Carcinogen
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Other ingredients	No
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methyl (4aS)-7-chloro-2,5-dihydro-2-[[[(methoxycarbonyl)[4-(trifluoromethoxy)phenyl]amino]carbonyl]inden-1,2-e][1,3,4]oxadiazine-4a(3H)-carboxylate	No
---	----

Other Toxicity Information

None

Toxicity of Other Components

Other ingredients
 Not Applicable

Target Organs

Active Ingredients

Indoxacarb Technical: Nervous system

Inert Ingredients

Other ingredients: Not Applicable

12. ECOLOGICAL INFORMATION

Eco-Acute Toxicity

Indoxacarb Technical:

Fish (Rainbow Trout) 96-hour LC50 0.65 mg/l

Bird (Bobwhite Quail) LD50 Oral 98 mg/kg

Invertebrate (Water Flea) Daphnia Magna 48-hour EC50 0.60 mg/l

Environmental Fate

Indoxacarb Technical:

Information given is based on data on the components and the ecotoxicology of similar products.

Environmental Hazards: Do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark.

13. DISPOSAL CONSIDERATIONS

Disposal:

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

ADVION® INSECT GRANULE

Date: 4/2/2015
 Replaces: 11/1/2013

Characteristic Waste: Not Applicable
 Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification
 Ground Transport - NAFTA
 Not regulated

Comments
 Water Transport - International
 Not regulated.

Air Transport
 Not regulated.

15. REGULATORY INFORMATION

Pesticide Registration:
 This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

Caution: Avoid contact with skin, eyes, or clothing.

EPA Registration Number(s):
 100-1483

EPCRA SARA Title III Classification:
 Section 311/312 Hazard Classes: Acute Health Hazard
 Section 313 Toxic Chemicals: None

CERCLA/SARA 304 Reportable Quantity (RQ):
 Not Applicable

RCRA Hazardous Waste Classification (40 CFR 261):
 Not Applicable

TSCA Status:
 Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 1
 Flammability: 1
 Instability: 0

HMIS Hazard Ratings

Health: 1
 Flammability: 1
 Reactivity: 0

0	Minimal
1	Slight
2	Moderate
3	Serious
4	Extreme
*	Chronic

Syngenta Hazard Category: A

ADVION® INSECT GRANULE

Date: 4/2/2015
Replaces: 11/1/2013

For non-emergency questions about this product call:

1-800-334-9481

Original Issued Date: 5/28/2013
Revision Date: 4/2/2015 Replaces: 11/1/2013
Section(s) Revised: 1-16

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.

DuPont™ Advion®

FIRE ANT BAIT

Professional Products

Only for Sale to, Use and Storage by Commercial Applicators

For control of imported fire ants, bigheaded ants, and pavement ants on lawns, recreational areas, golf courses and other noncrop/nongrazed areas.

<i>Active Ingredient</i>	<i>By Weight</i>
Indoxacarb (S)-methyl 7-chloro-2,5-dihydro-2-[[methoxy-carbonyl][4(trifluoromethoxy)phenyl]amino]-carbonyl]indeno[1,2-e][1,3,4]oxadiazine-4a-(3H)-carboxylate	0.045%
Other ingredients	99.955%
TOTAL	100.0%

EPA Reg. No. 352-627

Net Contents: _____

Establishment Nos.:

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may contact 1-800-441-3637 for emergency medical treatment.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS (AND DOMESTIC ANIMALS)

CAUTION

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.
Shoes plus socks.
Gloves.

Follow manufacturer's instructions for cleaning/maintaining personal protective equipment (PPE). If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply where/when conditions could favor runoff. Cover, incorporate, or clean up granules that are spilled.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment rinsewater.



The miracles of science™

DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

- Do not allow unprotected workers or other persons or pets in treated area during application.

DuPont™ ADVION® fire ant bait must be used only in accordance with Directions For Use on this label.

GENERAL INFORMATION

ADVION® fire ant bait may be used to control imported fire ants, bigheaded ants* and pavement ants* in noncrop/nongrazed areas such as residential lawns, golf courses, recreational areas, industrial sites and other similar areas where imported fire ants, bigheaded ants and pavement ants are found. Refer to the Use Rate table for specific treatment site examples where this product may be used to control imported fire ants.

Precaution:

Compatibility studies with other pesticides, fertilizers, and other biologically active materials have not been completed. Do not apply in combination with other materials. Do not formulate this product into other end-use products.

When to apply:

ADVION® fire ant bait should be applied at the first sign of fire ant, bigheaded ant or pavement ant activity. Applications may be made at any time of the day, but are more effective when ants are actively foraging, usually when the soil surface temperature is above 60° F.

Up to 4 applications of ADVION® fire ant bait may be applied per year. These are generally applied at 12 to 16 week intervals. However, rainfall or irrigation within 2 to 3 hours

after application may reduce the effectiveness of ADVION® fire ant bait and a repeat application within 7 days may be necessary to achieve the desired level of control.

Do not apply if the area to be treated is wet with dew, irrigation or rainfall.

SPECIFIC USE DIRECTIONS

Broadcast Treatments

Make application with broadcast equipment capable of applying 1.5 pounds of ADVION® fire ant bait per acre. Calibrate and adjust equipment prior to application to ensure that the proper rate of product will be applied. Retreat after 12-16 weeks if needed.

Individual Mound Treatments

Do not disturb the mound. Do not apply to tops of mound. Apply 4 level tablespoons (0.5 oz) of ADVION® fire ant bait per mound, uniformly distributing the product 3-4 feet around the mound. Retreat after 12-16 weeks if needed.

Individual mound treatments: **Application Sites, Pest Controlled are the same as those listed below.**

GENERAL:

- Do not use kitchen utensils for measuring. Keep measuring utensils with pest control pesticides away from children.
- Do not allow livestock or domestic animals to consume the bait.
- Do not apply this product through any type of irrigation system.
- Do not exceed 6 total pounds of ADVION® fire ant bait applied per acre per year.

Use Rate for ADVION® fire ant bait

Use Sites	Pest Controlled	Pound Product/Acre	Ounces Product per 1,000 sq ft
Home lawns, golf courses, athletic field and recreational turf; non-grazed and noncrop areas, parks, cemeteries, picnic areas, uncultivated non-agricultural areas, including airports, roadsides, highway right of ways, utilities right of way, campgrounds, and industrial sites; Institutional sites defined as areas around properties or facilities providing a service to public or private organizations including, but not limited to, hospitals, nursing homes, schools, universities, colleges, museums, libraries, sport facilities, and office buildings	Imported fire ants - <i>Solenopsis spp.</i> Bigheaded ants* <i>Pheidole megacephala</i> Pavement ants* <i>Tetramorium caespitum</i>	1.5 lbs/A (6 lbs/A total or 4 applications in a 1 year period)	0.5 oz/1,000 sq ft

* Not approved for use on this species in CA

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE: Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

PESTICIDE DISPOSAL: Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: For Plastic

Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke. **Plastic Bags:** Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke. **For Fiber Drums With Liners:**

Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

NOTICE TO BUYER--Purchase of this material does not confer any rights under patents of countries outside of the United States.

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SL - 893-3 061306 08-18-04

DuPont will not be responsible for losses or damages resulting from use of this product in any manner not specifically recommended by DuPont. User assumes all risks associated with such non-recommended use.

LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read This Limitation of Warranty and Liability Before Buying or Using This Product. If the Terms Are Not Acceptable, Return the Product at Once, Unopened, and the Purchase Price Will Be Refunded.

It is impossible to eliminate all risks associated with the use of this product. Such risks may arise from factors such as weather conditions, soil factors, off target movement, unconventional technique, presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of DuPont or Seller. These risks can cause: ineffectiveness of the product or other unintended consequences.

DuPont does not agree to be an insurer of these risks. **TO THE FULLEST EXTENT PERMITTED BY LAW, WHEN YOU BUY OR USE THIS PRODUCT, YOU AGREE TO ACCEPT THESE RISKS.**

DuPont warrants that this product conforms to the chemical description on the label thereof and is reasonably fit for the purpose stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions.

DUPONT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.

TO THE FULLEST EXTENT PERMITTED BY LAW, IN NO EVENT SHALL DUPONT OR SELLER BE LIABLE FOR ANY INCIDENTAL, CONSEQUENTIAL OR SPECIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. THE EXCLUSIVE REMEDY OF THE USER OR BUYER AND THE EXCLUSIVE LIABILITY OF DUPONT OR SELLER, FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY OR CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHER LEGAL THEORY) RESULTING FROM THE STORAGE, USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT, OR AT THE ELECTION OF DUPONT OR SELLER, THE REPLACEMENT OF THE PRODUCT.

DuPont or its distributor must have prompt notice of any claim so that an immediate investigation of buyer's or user's claim can be made. Buyer and all users shall promptly notify DuPont or a DuPont distributor of any claims, whether based on contract, negligence, strict liability, other tort or otherwise or be barred from any remedy.

This Limitation of Warranty and Liability may not be amended by any oral or written agreement.

For product information call: 1-888-6-DUPONT

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The MSDS format adheres to the standards and regulatory requirements of the United States and may not meet regulatory requirements in other countries.

DuPont
Material Safety Data Sheet

Page 1

"DuPont" "ADVION" FIRE ANT BAIT
M0000496 Revised 16-SEP-2005

CHEMICAL PRODUCT/COMPANY IDENTIFICATION

Material Identification

"DuPont", "ADVION" are trademarks of DuPont.

CAS Number : 173584-44-6
CAS Name : (DPX-KN128 Active Ingredient)

Tradenames and Synonyms

INDOXACARB
Indoxacarb 0.045% Fire Ant Bait

Company Identification

MANUFACTURER/DISTRIBUTOR
DuPont
1007 Market Street
Wilmington, DE 19898

PHONE NUMBERS

Product Information : 1-800-441-7515 (outside the U.S.
302-774-1000)
Transport Emergency : CHEMTREC 1-800-424-9300 (outside U.S.
703-527-3887)
Medical Emergency : 1-800-441-3637 (outside the U.S.
302-774-1000)

COMPOSITION/INFORMATION ON INGREDIENTS

Components

Material	CAS Number	%
INDOXACARB	173584-44-6	0.045
OTHER INGREDIENTS		99.955

HAZARDS IDENTIFICATION

Potential Health Effects

Based on animal testing, no biologically significant effects are expected from skin or eye contact or by ingestion.

(HAZARDS IDENTIFICATION - Continued)

Carcinogenicity Information

None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, OSHA or ACGIH as a carcinogen.

FIRST AID MEASURES

First Aid

IF INHALED: No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. Consult a physician if necessary.

IF ON SKIN OR CLOTHING: No specific intervention is indicated as the compound is not likely to be hazardous to the skin. Consult a physician if necessary.

IF IN EYES: No specific intervention is indicated as the compound is not likely to be hazardous to the eyes. Consult a physician if necessary.

IF SWALLOWED: No specific intervention is indicated as the compound is not likely to be hazardous by ingestion. Consult a physician if necessary.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

You may contact 1-800-441-3637 for emergency medical treatment.

FIRE FIGHTING MEASURES

Flammable Properties

Not a fire or explosion hazard.

Extinguishing Media

Water, Water Spray, Foam, Dry Chemical, CO2.

Fire Fighting Instructions

Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment. Runoff from fire control may be a pollution hazard.

(FIRE FIGHTING MEASURES - Continued)

If area is exposed to fire and conditions permit, let fire burn itself out. Burning chemicals may produce by-products more toxic than the original material. If product is on fire, wear self-contained breathing apparatus and full protective equipment. Use water spray. Control runoff.

ACCIDENTAL RELEASE MEASURES

Safeguards (Personnel)

NOTE: Review FIRE FIGHTING MEASURES and HANDLING (PERSONNEL) sections before proceeding with clean-up. Use appropriate PERSONAL PROTECTIVE EQUIPMENT during clean-up.

Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus.

Emergency Response - Chemical resistant coveralls, waterproof gloves, waterproof boots and face/eye protection. If dusting occurs, use NIOSH approved respirator protection.

Initial Containment

Follow applicable Federal, State/Provincial and Local laws/regulations. Prevent material from entering sewers, waterways, or low areas.

Spill Clean Up

Shovel or sweep up. Avoid causing dust. Dispose of in an approved container.

HANDLING AND STORAGE

Handling (Personnel)

USERS SHOULD: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Storage

Do not contaminate water, food, or feed by storage.

Store product in original container only in a location inaccessible to children and pets. Do not contaminate water, other pesticides, fertilizer, food or feed in storage.

EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls

Use only with adequate ventilation. Keep container tightly closed.

Do not generate dust.

Personal Protective Equipment

Applicators and other handlers must wear:

Long-sleeved shirt and long pants.

Shoes plus socks.

Gloves.

Follow manufacturer's instructions for cleaning/
maintaining personal protective equipment (PPE). If no
such instructions for washables, use detergent and hot
water. Keep and wash PPE separately from other laundry.

Exposure Guidelines

Exposure Limits

"DuPont" "ADVION" FIRE ANT BAIT

PEL (OSHA)	:	Particulates (Not Otherwise Regulated)
		15 mg/m ³ , 8 Hr. TWA, total dust
		5 mg/m ³ , 8 Hr. TWA, respirable dust
AEL * (DuPont)	:	1 mg/m ³
		8 & 12 Hr. TWA, Respirable

* AEL is DuPont's Acceptable Exposure Limit. Where governmentally imposed occupational exposure limits which are lower than the AEL are in effect, such limits shall take precedence.

PHYSICAL AND CHEMICAL PROPERTIES

Physical Data

Odor	:	Slight vegetable oil
Form	:	Granular-like
Color	:	Light yellow
Density	:	0.29-0.35 g/cc
Vapor Pressure	:	2.5 x 10 ⁽⁻⁸⁾ Pa (a.i.)
Solubility in Water	:	0.2 ppm (a.i)

STABILITY AND REACTIVITY

Incompatibility with Other Materials

None reasonably foreseeable.

TOXICOLOGICAL INFORMATION

Animal Data

DuPont Advion Fire Ant Bait

Oral LD50: > 5000 mg/kg in rats
Dermal LD50: > 5000 mg/kg in rabbits

DuPont Advion Fire Ant Bait is not a skin or eye irritant, and is not a skin sensitizer in animal tests.

ECOLOGICAL INFORMATION

Ecotoxicological Information

DuPont Advion Fire Ant Bait contains 0.045% active ingredient (calculated as the active isomer DPX-KN128) and is labeled for a maximum single application rate of 1.5 lbs of Advion fire ant bait per acre (equivalent to 0.0007 lbs active ingredient per acre). Based on the Advion Fire Ant Bait application rate, and the laboratory test results conducted with a higher concentration technical material, the ecological toxicity risk potential is extremely low for aquatic and avian species when the product is applied according to label directions to control red imported fire ants.

Note that the following results are based on tests conducted under laboratory conditions using DPX-MP062 Technical as the test substance. The DPX-MP062 Technical used in the tests contained 94.5% active ingredient in the form of the insecticidally active isomer DPX-KN128 and inactive isomer IN-KN127 in an approximately 75:25 ratio.

(94.5% DPX-MP062)

AQUATIC TOXICITY:

96 hour LC50 - Bluegill sunfish: 0.90 mg/L.
96 hour LC50 - Rainbow trout : 0.65 mg/L.
48 hour EC50 - Daphnia magna : 0.60 mg/L.

Based on the above results for fish and invertebrates, risk quotients (RQs) were < 0.002 and no levels of concern (LOCs) were exceeded.

AVIAN TOXICITY:

Acute Oral LD50 - Bobwhite Quail : 98 mg/kg.
Acute Dietary LC50 - Bobwhite Quail: 808 ppm

(ECOLOGICAL INFORMATION - Continued)

Acute Dietary LC50 - Mallard Duck : >5620 ppm

Based on the above results for birds, acute RQs were < 0.03
and chronic RQs were < 0.1, and no LOCs were exceeded.

DISPOSAL CONSIDERATIONS

Waste Disposal

Do not contaminate water, food, or feed by storage or disposal. Wastes resulting from the use of this product must be disposed of on site or at an approved waste disposal facility.

Do not apply where/when conditions could favor runoff. Cover, incorporate, or clean up granules that are spilled.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment rinsewater.

Container Disposal

For Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For Plastic Bags: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

For Fiber Drums with Liners: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in a sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

TRANSPORTATION INFORMATION

Shipping Information

DOT/IMO/IATA

Proper Shipping Name : Not Regulated
-----REGULATORY INFORMATION

U.S. Federal Regulations

TITLE III HAZARD CLASSIFICATIONS SECTIONS 311, 312

Acute : Yes
Chronic : No
Fire : No
Reactivity : No

In the United States this product is regulated by the US Environmental Protection Agency under the Federal Insecticide, Fungicide and Rodenticide Act. It is a violation of federal law to use this product in a manner inconsistent with its labeling.

EPA Reg. No. 352-627
-----OTHER INFORMATION

The data in this Material Safety Data Sheet relates only to the specific material designated herein and does not relate to use in combination with any other material or in any process.

Responsibility for MSDS: DuPont Crop Protection
Address : Wilmington, DE 19898
Telephone : 1-888-638-7668

Indicates updated section.

This information is based upon technical information believed to be reliable. It is subject to revision as additional knowledge and experience is gained.

End of MSDS

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMAN & DOMESTIC ANIMALS
CAUTION**

Harmful if swallowed or inhaled. Causes moderate eye irritation. Avoid contact with eyes or clothing. Avoid breathing dust. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

DOMESTIC APPLICATION

COCKROACHES, PALMETTOBUGS, WATERBUGS, ANTS (excluding Carpenter Ants) AND SILVERFISH: No powder should be visible in living areas after application. Any powder visible after application must be brushed into cracks and crevices or removed. Apply only in areas inaccessible to children and pets. Avoid contamination of feed and foodstuffs. Do not use in serving areas when food is exposed. Do not use in edible product areas. Apply approximately 1 pound for every 1,000 square feet of living space.

Apply this product liberally in areas where cockroaches hide or nest:

1. Under and behind appliances.
2. In plumbing voids accessible through holes, around plumbing and drains.
3. In void areas under kitchen and bathroom cabinets (Note: Many cabinets have a gap at the top of the kickplate which offers easy access. If not, drill a small hole at the top of the kickplate.)
4. In drawer wells of cabinets.
5. In cracks around windows, doors, baseplates, fixtures and cabinets.
6. In utility rooms, under and behind hot water heaters, washers and dryers. Be sure to dust plumbing voids.
7. In attics, around the perimeter and vent pipes, above kitchens and baths.
8. Around the perimeter of dropped ceilings.
9. Into pits of elevator shafts, dumbwaiters and trash chutes.
10. Under and behind pallets and boxes in storerooms.

STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

STORAGE: Store in original container away from food and feedstuffs. Keep products in a locked storage area.

DISPOSAL: Do not reuse this container. Wrap and place in trash collector.

EPA Reg. No. 9444-129

EPA Est. No. 9444-LA-1



BORiD®
with BORIC ACID

**KILLS: Cockroaches, Palmettobugs,
Waterbugs, Ants (excluding Carpenter Ants),
Silverfish and Darkling Beetles.**

**Also use for preventive treatment of Cockroaches
and Drywood Termites.**

**FOR USE IN Homes, Restaurants, Grocery Stores,
Schools, Warehouses, Mobile Homes, Hotels,
Offices, Apartments, Attics, Nursing Homes,
Ships, Yachts, Buses, Kennels, Zoos,
New Building Construction, Sewers and Hospitals.**

- LONG-LASTING POWDER
- ODORLESS

ACTIVE INGREDIENT:

Orthoboric Acid.....99.0%

INERT INGREDIENTS.....1.0%
100.0%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONS

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting. **IF INHALED:** Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention. **IF IN EYES:** Flush eyes with plenty of water. Call a physician if irritation persists.

NET WEIGHT 1 lb/454 g

**DIRECTIONS FOR USE
WITHIN FOOD AREAS AND NON-FOOD AREAS OF FOOD
HANDLING ESTABLISHMENTS**

FOOD HANDLING ESTABLISHMENTS: Places other than private residences in which exposed food is held, processed, prepared or served.

Care should be taken to avoid depositing the product onto surfaces which are exposed or introducing the material into the air. Avoid contamination of food or food processing surfaces. APPLICATIONS OF THIS PRODUCT IN THE FOOD AREA OF FOOD HANDLING ESTABLISHMENTS OTHER THAN AS A CRACK AND CREVICE TREATMENT ARE NOT PERMITTED.

Apply in small amounts directly into cracks and crevices using a bellows duster or other suitable equipment capable of applying insecticide directly. Includes areas for receiving, storage, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups). Serving areas, when food is exposed and facility is in operation, also would be considered a food area.

SERVING AREAS: Facilities where prepared foods are served, such as dining room, but excluding areas where food may be prepared or held. Apply as a spot treatment to selective surfaces such as baseboards, under elements of constructions into cracks and crevices. Avoid treating surfaces likely to be contacted by food. (Do not apply when facility is in operation or foods are exposed.)

NON-FOOD AREAS: Includes garbage rooms, lavatories, floor drains (to sewer entries and vestibules), offices, locker rooms, machine rooms, boiler rooms, garages, mop closets and storage (after canning or bottling). Apply to baseboard areas, around water pipes, surfaces behind and beneath sinks, lockers, tables, pallets and similar areas where insects hide or through which they may enter.

SEWER TREATMENT: Apply this product at a rate not to exceed 8 pounds per 3,000 square feet using portable blowers or air pressure tanks.

PRETREATMENT OF NEW CONSTRUCTION (Preventive treatment for cockroaches and drywood termites): Apply powder to baseplates and plumbing voids at the rate of 4 pounds per 1,000 square feet. In attics, apply powder around perimeter of attics and around vent stacks at the rate of 4 pounds per 1,000 square feet.

POULTRY HOUSES-TO CONTROL DARKLING BEETLES: Remove birds before applying product. Apply at the rate of 1 to 2 pounds per 100 square feet over old litter or soil surface of the poultry house. Also apply to the posts, walls, framing and insulation of the poultry house. Do not apply directly to manure. Evenly spread fresh litter a minimum of four inches over all treated floor surfaces before introducing birds. Reapply after each grow-out period or after each sanitizing and cleaning of the poultry containment area in order to have good beetle control.

Product is filled by weight and may settle in shipping.
Authorized for use under USDA Inspection & Grading Programs.

Manufactured by
**WATERBURY
COMPANIES, INC.**
P.O. Box 1812
Waterbury, CT 05722
Made in U.S.A.



0 43725 80011 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name: BORID POWDER ALL SIZES - EPA REGISTRATION # 9444-129
Manufactured by: Waterbury Companies, Inc.
 P.O. Box 640
 Independence, LA 70443

24-Hour Emergency Contact:
 800-424-9300 or 703-527-3887
 (CHEMTREC)

2. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous components greater than 1.0% (0.1% if carcinogen or suspected carcinogen)

Component	CAS#	OSHA PEL	ACGIH TLV	Other Limits	% bywt.
Orthoboric Acid (Boric Acid)	10043-35-3	N.E.	N.E.	N.E.	99
Tricalcium Phosphate-Foodgrade	7758-87-4				<5

3. HAZARDS IDENTIFICATION

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Read label. Application of this product in the food area of food handling establishments other than as a crack and crevice treatment are not permitted.

Potential Health Effects:

Routes of Entry: Inhalation: Yes Ingestion: Yes Skin: Yes

Health Hazards: Large amounts absorbed into blood stream from ingestion or through damaged skin may result in erythema, macular rash, nausea, diarrhea, dizziness, depression, CNS effects after 24 hours, through broken skin or 36-72 hours from ingestion. May cause slight irritation to broken skin. Animal studies have shown that ingestion of large amounts of Borates over prolonged periods of time causes a decrease in sperm production and testicle size in male laboratory animals and developmental effects in fetuses of pregnant female laboratory animals. No evidence of such effects in humans.

Signs/symptoms of overexposure: INGESTION: Acute oral LD50 (rats) 3.16 g/Kg. May cause nausea, vomiting, diarrhea in doses >15gms. EYES: May cause slight, reversible conjunctivitis. SKIN: May cause slight irritation on damaged skin. Acute dermal LD50 > 2g/Kg (rabbits) INHALATION: Nuisance dust. May cause transitory sneezing and coughing.

Medical conditions aggravated by exposure: None known.

NFPA Hazard Ratings **Fire:** 0 **Health:** 1 **Reactivity:** 0

NFPA 704 Ratings are subject to interpretation and are only intended for general identification of the level of the specific hazard. All information must be considered for proper safe handling of the material.

4. FIRST AID MEASURES

IF SWALLOWED: Call a doctor or Poison Control Center for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person. IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after 5 minutes then continue rinsing eye. Call a physician if irritation persists. IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. NOTE TO PHYSICIAN: After ingestion or absorption into the bloodstream of large amounts (> 15gms.), symptoms may appear in 24-72 hours. Borates are readily dissipated through the urine (70% in the first 24 hours).

5. FIRE FIGHTING MEASURES

Extinguishing Media: N/A

Fire Fighting Procedures: None Required.

Unusual Fire and Explosion Hazards: None Known - Product is an inherent fire retardant.

6. ACCIDENTAL RELEASE MEASURES

Sweep or vacuum. Flush area with water.

7. HANDLING AND STORAGE

Do not contaminate food or feed by storage or disposal. No powder should be visible in living areas after application. Any powder visible after application must be brushed into cracks and crevices or removed. Apply only in areas inaccessible to children and pets. Avoid contamination of feed and foodstuffs. Do not use in serving areas when food is exposed. Do not use in edible product areas. Apply approximately 1 pound for every 1,000 square feet of living space.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Protective Gloves: Not required - avoid contact with skin.

Eye Protection: Not required - avoid contact with eyes.

Respiratory Protection: N/A

Ventilation: Local: Not required.

Mechanical: Not required.

Other protective equipment: Safety glasses to avoid possible contact with eyes is recommended.

Protective Work/Hygiene Practices: Follow label instructions.

MATERIAL SAFETY DATA SHEET

MSDS Number: 428000RV

9. PHYSICAL AND CHEMICAL PROPERTIES

<i>Specific Gravity (H2O=1):</i>	N/A	<i>Flashpoint:</i>	Not applicable.	<i>LEL:</i>	N/A
<i>Vapor Pressure (mmHg):</i>	N/A	<i>Boiling Point:</i>	N/A	<i>Melting Point:</i>	340 deg. F <i>UEL:</i> N/A
<i>Solubility:</i>	4.7% @68 degrees F.	<i>Appearance/Odor:</i>	Light blue odorless powder.		

10. STABILITY AND REACTIVITY

Conditions to Avoid: Contact with acetic anhydride or elemental potassium.

Incompatible Materials: Acetic anhydride, elemental potassium.

Hazardous Decomposition By-products: None known.

Hazardous Polymerization Conditions: None known.

11. TOXICOLOGICAL INFORMATION

This product contains no chemicals that are listed on the NTP, IARC, or OSHA carcinogen lists. Any further information on the toxicology of the material can be obtained by contacting the manufacturer.

12. ECOLOGICAL INFORMATION

Please call the manufacturer for questions concerning the ecological effects of this product and it's constituents.

13. DISPOSAL CONSIDERATIONS

IF EMPTY: Do not reuse the container. IF PARTLY FILLED: Call your local solid waste agency or 1-800-CLEANUP for disposal instructions.

14. TRANSPORT INFORMATION

	<i>Status</i>	<i>Shipping Name</i>	<i>Class</i>	<i>ID Number</i>	<i>Pack Grp</i>
<i>DOT (USA):</i>	Not Regulated	Orthoboric acid	N/A	N/A	N/A
<i>IATA (Air):</i>	Not Regulated	N/A	N/A	N/A	N/A
<i>IMDG (Vessel):</i>	N/A	N/A	N/A	N/A	N/A
<i>National Motor Freight Classification and LTL Class:</i>		43520 - CLASS 55			

15. REGULATORY INFORMATION

This product is authorized for use in plants operating under USDA Inspection and Grading Programs as a CATEGORY F2 Substance

SARA Title III Section 312: When completing Tier II reports, the following information should be used.

Note: See state and local regulations for specifics on reporting requirements for your facility.

This product should be described as: PURE: N MIXTURE: Y SOLID: Y LIQUID: N GAS: N

Physical Hazards: FIRE: N PRESSURE: N REACTIVITY: N *Health Hazards:* IMMEDIATE: Y DELAYED: N

16. OTHER INFORMATION

Product Sales Information: 800-845-3495

MSDS Information: 985-878-6751

Revision Notes: Review of MSDS

N/A = Not Applicable

N.E. = Not Established

WATCO PART #:

MSDS Prepared by SW

This Information is provided in good faith, but no warranty, expressed or implied, is made. The manufacturer believes that it is accurate and to the best of its knowledge, and relates only to the specific material designated herein.



DeltaDust[®]

INSECTICIDE

- PROVIDES QUICK CONTROL OF ANTS, BEES, COCKROACHES, FLEAS, SILVERFISH, TICKS, AND NUMEROUS STORED PRODUCT PESTS AS LISTED.
- KILLS LISTED CRAWLING INSECTS UP TO 8 MONTHS WHEN LEFT UNDISTURBED.
- FOR USE INDOORS AND OUTDOORS.
- DOES NOT CLUMP OR ABSORB MOISTURE.
- NON-STAINING AND ODORLESS.

ACTIVE INGREDIENT:

Deltamethrin..... 0.05%

OTHER INGREDIENTS 99.95%

TOTAL: 100.00%

EPA Reg. No. 432-772

See Booklet for Complete Precautionary Statements and Directions for Use.

KEEP OUT OF REACH OF CHILDREN

Ants • Bed Bugs • Wasps



Net Weight

1 Pound

04191071

04494104G 160805AV1a

PARA EL USUARIO: Si usted no lee inglés, no use este producto hasta que le hayan explicado completamente las instrucciones en la etiqueta. (TO THE USER: If you cannot read English, do not use this product until the label has been fully explained to you.)

**For MEDICAL and TRANSPORTATION Emergencies ONLY Call
24 Hours A Day 1-800-334-7577
For PRODUCT USE Information Call 1-800-331-2867**

PRECAUTIONARY STATEMENTS

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. IMPORTANT: Read the entire Directions for Use, Precautions and Disclaimer of Warranties before using this product.

Containers larger than one pound may not be used or stored in food handling establishments.

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens, parks, or on golf courses, or lawns and grounds.

DeltaDust® Insecticide is a ready-to-use insecticide dust which exhibits effective knockdown and residual control against the pests listed when used according to label directions.

APPLICATION RESTRICTIONS

Do not water the treated area to the point of run-off.

Do not make applications during rain.

Do not apply directly to sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitat can occur, except as directed by this label.

Do not apply into closed air handling systems, voids or ducts including Heating, Ventilation, Air Conditioning (HVAC) appliances and systems that circulate, filter, or condition air that is directed into

rooms that are, or may be, occupied.

DeltaDust Insecticide can be used for residual pest control in and on buildings and structures and their immediate surroundings.

Do not use in aircraft cabins. Permitted areas of use include:

aircraft	meat slaughtering and packing plants
animal quarters/kennels	mobile homes and recreational vehicles
apartment buildings	nursing homes/day care centers
bakeries	rail cars
breweries	restaurants
buses	schools
canneries	sewers and underground tunnels
cafeterias	stores and institutions
dairies	supermarkets
food/feed manufacturing, processing and service establishments	telecommunication conduits
greenhouses (non-commercial)	theaters
grocery stores and supermarkets	trucks and trailers
hospitals	utility vaults and conduits
hotels/motels	vessels
houses	warehouses
industrial buildings and installations	zoos
laboratories	
mausoleums	

DeltaDust Insecticide is intended for applications with a hand or power duster (Actisol® DPA or similar equipment), with a paint brush or by other suitable means, to hiding and runway areas and other places where insects are found. In living areas, make applications in such a manner as to avoid depositions on exposed surfaces or introducing the material into the air. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

To apply insecticide directly into cracks and crevices, use a bulbous duster or other suitable equipment. Apply lightly and uniformly to infested area. Pay particular attention to cracks and crevices; service ducts; false floors and ceilings; wall voids; around electrical and telephone fittings and equipment; around water and sewer pipes; under and behind cabinets, refrigerators, and sinks; around windows and door frames; along baseboards; in attics and crawl spaces. The amount to be applied will vary with the site but should usually be in the range of 2 - 3 grams of DeltaDust Insecticide per square yard (or 0.5 lbs per 1000 square feet).

INDOOR USE FOOD/FEED HANDLING ESTABLISHMENT AP- PLICATIONS

DeltaDust Insecticide applications are permitted in both food/feed and non-food areas of food/feed handling establishments as a general surface, spot, or crack and crevice treatment. Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared, or served. Included also are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage, and enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.

Non-Food/Non-Feed Areas: Examples of non-food/non-feed areas include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, boiler rooms, mop closets, and storage (after packaging, canning or bottling).

General Surface Application: Do not apply as a general surface application in the food/feed handling areas of the facility, when the facility is in operation or foods are exposed. Do not apply directly to food products. Cover or remove all food processing and/or handling equipment during application. After application in food processing plants, bakeries, cafeterias, and similar facilities, wash all equipment, benches, shelving, and other surfaces which food will contact. Clean food handling or processing equipment and thoroughly rinse with clean, fresh water.

Spot or Crack and Crevice Application: Spot and/or Crack and Crevice applications may be made while the facility is in operation provided exposed food is covered or removed from area being treated prior to application. Do not apply directly to food or food handling surfaces. DeltaDust Insecticide may also be applied as a void treatment using suitable equipment, as mentioned above, including Actisol DPA equipment. Be sure to thoroughly treat service ducts, false floors and ceilings, wall voids, attics, and crawl spaces. The amount of dust to be applied will vary with the site but should usually be in the range of 2 - 3 grams per square yard (or 0.5 lbs per 1000 square feet). Dust applications should be made in a manner to avoid deposits in exposed surfaces, introducing the material in the air.

ANTS, BOXELDER BUGS, COCKROACHES (INCLUDING BOTH RESISTANT AND NON-RESISTANT STRAINS), CRICKETS, FLEAS, FIREBRATS, AND SILVERFISH: Apply DeltaDust Insecticide thoroughly to all areas where these pests crawl and hide, especially in those areas described above. For ants, apply to ant trails, around doors and windows, and other places where ants enter premises.
TERMITES, CARPENTER ANTS, AND CARPENTER BEES: Apply to

voids or channels in damaged wooden members of a structure; to cracks, spaces, or bearing joints between wooden members of a structure; or between such members and the foundation; and in locations vulnerable to termite attack. Drilling may be necessary prior to applying DeltaDust Insecticide in these locations, but it must be recognized that such drilling and treating of timber in a particular location may not result in complete coverage of infested and vulnerable voids or galleries. Drilling directly overhead with subsequent application of DeltaDust Insecticide should be avoided. DeltaDust Insecticide can be applied in attics and crawl spaces to prevent entry of drywood and formosan termites at a rate of 0.5 lb per 1000 square feet of floor area. In these treatments, all vents and blowers should be closed. Retreat if necessary. For subterranean termites the purpose of such applications of DeltaDust Insecticide is to kill workers or winged forms which may be present in the treated channels at the time of treatment. Such applications are not a substitute for mechanical alteration, soil treatment, or foundation treatment, but merely a supplement. For active termite infestations get a professional termite inspection. This supplemental treatment can be particularly supportive of new construction.

CENTIPEDES, GROUND BEETLES, MILLIPEDES, SCORPIONS, SPIDERS, AND SOWBUGS: Apply DeltaDust Insecticide along and behind baseboards, to window and door frames, corners, pipes, storage locations, attics, crawl spaces, and other areas where these pests may enter or crawl.

WASPS AND BEES: It is generally advisable to treat wasp and bee nests in the evening when insects are less active and have returned to the nest. Wear protective clothing if deemed necessary to avoid stings. Using hand or power duster (Actisol® or similar equipment) or other suitable means, with extension tubes if necessary, thoroughly dust nest, entrance, and surrounding areas where insects alight. Nests in wall voids can be located by listening with your ear against the wall. Drill a hole in the area, blow dust in and reseal. For ground wasps, dust entrance and surrounding areas. For best results check nests carefully one or two days after treatment to ensure complete kill, then remove and destroy nest to prevent emergence of newly-hatched insects. If removal is not feasible, retreat the nest, if necessary. Do not use this product to treat overhead nests.

WEBBING CLOTHES MOTHS: Use DeltaDust Insecticide as a crack and crevice treatment in closets and other storage areas where these pests are found. This is an adjunct treatment and will not control moth larvae already on the clothes. DO NOT apply this product directly to clothing.

CARPET BEETLES (BLACK, FURNITURE, COMMON, AND VARIOUS): Dust where these insects are found, for example: on and

under edges of floor coverings, around baseboards, under rugs and furniture, and in closets. In residential areas do not apply as a broadcast application to floors or floor coverings.

BED BUGS: Apply DeltaDust Insecticide thoroughly to all areas where these pests are typically found including: folds and tufts of mattresses, coils or springs, cracks, and hollow posts of bed-frames, upholstery of chairs and sofas, picture frame moldings and all cracks and crevices in the room should be treated. Allow powder to remain in contact with folds and tufts of mattresses, chair and sofa upholstery for 4 - 6 hours, then thoroughly vacuum these treated areas, dispose of vacuum bag and place clean linens on bed. Also vacuum treated areas that will come into direct contact with humans and pets.

STORED PRODUCT & PANTRY PESTS: To aid in the control of the exposed stages of:

cadelles	merchant grain beetles
cheese mites	red flour beetles
cigarette beetles	rice weevils
confused flour beetles	rusty grain beetles
dark meal worms	saw-toothed grain beetles
dermestids	spider beetles
drugstore beetles	tobacco moths
grain mites	yellow meal worms
granary weevils	warehouse moths
lesser grain borers	indian meal
lesser mealworms	mediterranean flour

FOOD PROCESSING PESTS

Same crawling & flying pests as listed previously and Fruit flies, Phorid flies, and Sciarid flies.

Clean up waste materials, dust, dirt, and other debris. Thoroughly treat floors, walls, and other surfaces in storage and handling areas. Apply dust in cracks and crevices, behind and under cupboards, and other difficult to reach areas where insects may hide. DO NOT apply directly on food/feed, utensils or on areas where food/feed is stored.

ORNAMENTAL PLANT PESTS

For the control of:

aphids	leafrollers
beet armyworms	orange tortrix
blister beetles	periodical cicadas
boxelder bugs	plant bugs
certain leafminers (Boxwood, Holly, Oak, Spruce Needle)	rose chafers
	rose midges
	rose slugs
elm leaf beetles	tent caterpillars
flea beetles	thrips
Japanese beetles	weevils
leafhoppers	

SHRUBS AND ORNAMENTALS: Apply when insects or their damage first appear and repeat at weekly intervals or as necessary. Apply 8 ounces per 1000 square feet; or thoroughly apply to place a thin layer of dust on both upper and lower sides of leaves, stems, and flowers.

ROSES, PETUNIAS, CHRYSANTHEMUMS, GERANIUMS, CARNATIONS, AND OTHER RELATED FLOWERS: To control many leaf and flower chewing insects, apply as soon as the insect appears and repeat at 7 day intervals or as long as insects continue to appear. Apply a thin layer of dust on both upper and lower sides of leaves, stems, and flowers.

OUTDOOR USE

PERIMETER TREATMENT: Use DeltaDust Insecticide as a residual treatment for control of **ants, bees, centipedes, cockroaches, crickets, firebrats, fleas, ground beetles, millipedes, scorpions, silverfish, slugs, sowbugs, spiders, ticks, and wasps.** Make a residual treatment around windows and doors, porches, screens, eaves, patios, garages, under stairways, in crawl spaces, and other areas where pests hide. To help prevent the invasion of buildings and structures by these pests, apply thoroughly and uniformly to the foundation and crawl spaces where pests are active and may find entrance.

SEWER TREATMENT: Cockroach infestations in sanitary sewers may be treated with DeltaDust Insecticide to provide quick knock-down and short-term population suppression. When treating sewers, one manhole per 200 linear feet should be treated. Treatments are made by removing the manhole cover and replacing with a disc of plywood bored to receive the typical flexible hose from portable or truck-mounted ventilating equipment. Apply 1 - 2

ounces of dust into the ventilating air to be dispersed quickly and thoroughly through the system.

TELECOMMUNICATION TREATMENT: Apply DeltaDust Insecticide into telecommunication conduits, cracks and crevices, junction boxes, etc. using suitable application equipment (such as Actisol DPA Duster, or other types of application equipment capable of applying the proper amount). The amount of DeltaDust Insecticide to be applied will vary, but should usually be approximately 1 gram of dust per cubic foot of conduit. To calculate cubic feet, use the following equation: $\pi \times \text{radius}^2 \times \text{length of the conduit}$. NOTE: radius = one-half the diameter. Example: 500 linear feet of a 4" (12" = 1 foot; therefore, 0.33 ft) conduit = $3.14 \times (0.17 \text{ ft} \times 0.17 \text{ ft}) \times 500 \text{ ft} = 45.39$ cubic feet. DeltaDust Insecticide can be used in areas showing signs of active termite infestations, such as underground telecommunication cable conduits, electrical cable conduits, junction boxes, and manholes. Apply dust through suitable application equipment (such as the Actisol DPA Duster, that is capable of delivering particles suspended in a low pressure air system). Applications should be made from both ends of a run of open conduit in cases where breakdown in the conduit is suspected. DeltaDust Insecticide can also be applied directly to the interior of the conduits after cables have been installed. Apply at the rate of 1 gram of dust per cubic foot of conduit using equipment (i.e., Actisol DPA Duster) that is capable of delivering particles suspended in a low pressure air system.

FIRE ANTS: Apply dust with a shaker can. Thoroughly apply to adequately cover mound and around the perimeter (18" from the outer edge of the mound). A second treatment may be necessary if complete control is not obtained. DO NOT DISTURB THE MOUND PRIOR TO APPLICATION. If possible, treat all colonies in the vicinity. Also, treat colonies which have not yet constructed a mound.

FLEAS AND TICKS IN RODENT BURROWS: To control fleas and ticks in and around rodent burrows around homes and other buildings, apply DeltaDust Insecticide with a shaker can. For prairie dogs thoroughly treat quarantine areas and holding areas as well as burrows in open fields. Thoroughly apply dust to adequately cover mound and around the perimeter (18" from the outer edge). Be sure to treat abandoned rodent burrows which are suspected of containing fleas and ticks. Treat for a minimum of 5 days for light rodent populations, 10 days when populations are dense. Apply as needed for control.

STORAGE AND DISPOSAL

Do not contaminate water, feed, or food by storage or disposal.

Pesticide Storage: Store product in original container in a cool, dry, locked place out of reach of children.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling:

Non-refillable container. Do not reuse or refill this container. Completely empty bottle into application equipment or through applying directly from bottle, by shaking and tapping sides and bottom to loosen clinging particles. Place in trash. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down an indoor or outdoor drain.

IMPORTANT: READ BEFORE USE

Read the entire Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability before using this product. If terms are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Bayer CropScience LP. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Bayer CropScience LP is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, BAYER CROPSCIENCE LP DISCLAIMS ANY LIABILITY WHATSOEVER FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT

LIABILITY OR OTHERWISE, SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT BAYER CROPSCIENCE LP'S ELECTION, THE REPLACEMENT OF PRODUCT.

Actisol® is a registered trademark of William Evans.
Bayer (reg'd), the Bayer Cross (reg'd) and DeltaDust® are registered trademarks of Bayer.

**Produced for:
Bayer Environmental Science
A Division of Bayer CropScience LP
2 T. W. Alexander Drive
Research Triangle Park, NC 27709**

Bayer



DeltaDust[®]

INSECTICIDE

- PROVIDES QUICK CONTROL OF ANTS, BEES, COCKROACHES, FLEAS, SILVERFISH, TICKS, AND NUMEROUS STORED PRODUCT PESTS AS LISTED.
- KILLS LISTED CRAWLING INSECTS UP TO 8 MONTHS WHEN LEFT UNDISTURBED.
- FOR USE INDOORS AND OUTDOORS.
- DOES NOT CLUMP OR ABSORB MOISTURE.
- NON-STAINING AND ODORLESS.

ACTIVE INGREDIENT:

Deltamethrin.....0.05%

OTHER INGREDIENTS99.95%

TOTAL100.00%

EPA Reg. No. 432-772

KEEP OUT OF REACH OF CHILDREN

PARA EL USUARIO: Si usted no lee inglés, no use este producto hasta que le hayan explicado completamente las instrucciones en la etiqueta. **(TO THE USER:** If you cannot read English, do not use this product until the label has been fully explained to you.)

See Booklet for Complete Precautionary Statements
and Directions for Use.

For **MEDICAL** and **TRANSPORTATION** Emergencies
ONLY Call 24 Hours A Day 1-800-334-7577
For **PRODUCT USE** Information Call 1-800-331-2867

Net Weight

1 Pound

04191071

04494104G 160805AV1a

PRECAUTIONARY STATEMENTS

ENVIRONMENTAL HAZARDS

This product is extremely toxic to fish and aquatic invertebrates. Use with care when applying in areas adjacent to any body of water. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area.

This pesticide is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are foraging the treatment area.

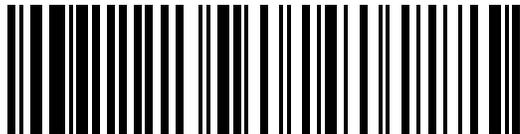
STORAGE AND DISPOSAL

Do not contaminate water, feed, or food by storage or disposal.

Pesticide Storage: Store product in original container in a cool, dry, locked place out of reach of children.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling: Non-refillable container. Do not reuse or refill this container. Completely empty bottle into application equipment or through applying directly from bottle, by shaking and tapping sides and bottom to loosen clinging particles. Place in trash. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down an indoor or outdoor drain.



(01)00785740193808

Bayer

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Produced for:
Bayer Environmental Science
A Division of Bayer CropScience LP
2 T. W. Alexander Drive
Research Triangle Park, NC 27709
Product of India

Bayer Environmental Science

SAFETY DATA SHEET



DELTA DUST® INSECTICIDE

Version 4.0 / USA
102000004846

1/11
Revision Date: 10/06/2015
Print Date: 10/07/2015

SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name DELTADUST® INSECTICIDE

Product code (UVP) 05952247

SDS Number 102000004846

EPA Registration No. 432-772

Relevant identified uses of the substance or mixture and uses advised against

Use Insecticide

Restrictions on use See product label for restrictions.

Information on supplier

Supplier Bayer Environmental Science
2 T.W. Alexander Drive
Research Triangle PK, NC 27709
United States

Responsible Department Email: SDSINFO.BCS-NA@bayer.com

Emergency telephone no.

Emergency Telephone Number (24hr/ 7 days) 1-800-334-7577

Product Information Telephone Number 1-800-331-2867

SECTION 2: HAZARDS IDENTIFICATION

Classification in accordance with regulation HCS 29CFR §1910.1200

This material is not hazardous under the criteria of the Federal OSHA Hazard Communication Standard 29CFR 1910.1200.

Other hazards

No other hazards known.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous Component Name	CAS-No.	Concentration % by weight
Deltamethrin	52918-63-5	0.05
Crystalline quartz (respirable)	14808-60-7	2.50
Calcium carbonate	1317-65-3	95.4



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SECTION 4: FIRST AID MEASURES

Description of first aid measures

General advice	When possible, have the product container or label with you when calling a poison control center or doctor or going for treatment.
Inhalation	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a physician or poison control center immediately.
Skin contact	Take off contaminated clothing and shoes immediately. Wash off immediately with plenty of water for at least 15 minutes. Call a physician or poison control center immediately.
Eye contact	Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a physician or poison control center immediately.
Ingestion	Call a physician or poison control center immediately. Rinse out mouth and give water in small sips to drink. DO NOT induce vomiting unless directed to do so by a physician or poison control center. Never give anything by mouth to an unconscious person. Do not leave victim unattended.

Most important symptoms and effects, both acute and delayed

Symptoms To date no symptoms are known.

Indication of any immediate medical attention and special treatment needed

Treatment Appropriate supportive and symptomatic treatment as indicated by the patient's condition is recommended. There is no specific antidote.

SECTION 5: FIREFIGHTING MEASURES

Extinguishing media

Suitable Carbon dioxide (CO₂), Dry chemical, Foam, Water

Unsuitable None known.

Advice for firefighters

Special protective equipment for fire-fighters Firefighters should wear NIOSH approved self-contained breathing apparatus and full protective clothing.

Further information Keep out of smoke. Fight fire from upwind position. Cool closed containers exposed to fire with water spray. Do not allow run-off from fire fighting to enter drains or water courses. Contain the spread of the fire-fighting media.

Flash point not applicable

Autoignition temperature no data available



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Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	no data available
Dust explosion class	no data available

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Precautions Keep unauthorized people away. Isolate hazard area. Avoid contact with spilled product or contaminated surfaces.

Methods and materials for containment and cleaning up

Methods for cleaning up Avoid dust formation. Sweep up or vacuum up spillage and collect in suitable container for disposal. Clean contaminated floors and objects thoroughly, observing environmental regulations.

Additional advice Use personal protective equipment. Do not allow to enter soil, waterways or waste water canal.

Reference to other sections Information regarding safe handling, see section 7.
Information regarding personal protective equipment, see section 8.
Information regarding waste disposal, see section 13.

SECTION 7: HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling Handle and open container in a manner as to prevent spillage. Maintain exposure levels below the exposure limit through the use of general and local exhaust ventilation.

Hygiene measures Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, using the toilet or applying cosmetics.
Remove Personal Protective Equipment (PPE) immediately after handling this product. Before removing gloves clean them with soap and water. Remove soiled clothing immediately and clean thoroughly before using again. Wash thoroughly and put on clean clothing.

Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers Store in a cool, dry place and in such a manner as to prevent cross contamination with other crop protection products, fertilizers, food, and feed. Store in original container and out of the reach of children, preferably in a locked storage area.



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SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Components	CAS-No.	Control parameters	Update	Basis
Deltamethrin	52918-63-5	0.02 mg/m3 (TWA)		OES BCS*
Crystalline quartz (respirable) (Respirable fraction.)	14808-60-7	0.025 mg/m3 (TWA)	02 2012	ACGIH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.05 mg/m3 (REL)	2010	NIOSH
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	1989	OSHA Z1A
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA)	06 2008	TN OEL
Crystalline quartz (respirable)	14808-60-7	0.27ug/m3 (AN ESL)	03 2014	TX ESL
Crystalline quartz (respirable)	14808-60-7	14ug/m3 (ST ESL)	03 2014	TX ESL
Crystalline quartz (respirable) (Respirable dust.)	14808-60-7	0.1 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA PEL)	08 2010	US CA OEL
Crystalline quartz (respirable) (Respirable.)	14808-60-7	0.1 mg/m3 (TWA)	2000	Z3
Crystalline quartz (respirable) (Total dust.)	14808-60-7	0.3 mg/m3 (TWA)	2000	Z3
Crystalline quartz (respirable) (Respirable.)	14808-60-7	2.4millions of particles per cubic foot of air (TWA)	2000	Z3
Calcium carbonate (Respirable.)	1317-65-3	5 mg/m3 (REL)	2010	NIOSH
Calcium carbonate (Total)	1317-65-3	10 mg/m3 (REL)	2010	NIOSH
Calcium carbonate (Respirable fraction.)	1317-65-3	5 mg/m3 (PEL)	02 2006	OSHA Z1
Calcium carbonate (Total dust.)	1317-65-3	15 mg/m3 (PEL)	02 2006	OSHA Z1
Calcium carbonate	1317-65-3	5 mg/m3	1989	OSHA Z1A

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(Respirable fraction.)		(TWA)		
Calcium carbonate (Total dust.)	1317-65-3	15 mg/m3 (TWA)	1989	OSHA Z1A
Calcium carbonate (Total dust.)	1317-65-3	15 mg/m3 (TWA)	06 2008	TN OEL
Calcium carbonate (Respirable fraction.)	1317-65-3	5 mg/m3 (TWA)	06 2008	TN OEL
Calcium carbonate	1317-65-3	5ug/m3 (AN ESL)	03 2014	TX ESL
Calcium carbonate	1317-65-3	50ug/m3 (ST ESL)	03 2014	TX ESL

*OES BCS: Internal Bayer CropScience "Occupational Exposure Standard"

Exposure controls

Personal protective equipment

In normal use and handling conditions please refer to the label and/or leaflet. In all other cases the following recommendations would apply.

Respiratory protection

When respirators are required, select NIOSH approved equipment based on actual or potential airborne concentrations and in accordance with the appropriate regulatory standards and/or industry recommendations.

Hand protection

Chemical resistant nitrile rubber gloves

Eye protection

Safety glasses
or
Goggles

Skin and body protection

Wear long-sleeved shirt and long pants and shoes plus socks.

General protective measures

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and warm/tepid water.
Keep and wash PPE separately from other laundry.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	white
Physical State	powder
Odor	weak characteristic
Odour Threshold	no data available
pH	no data available
Vapor Pressure	no data available
Vapor Density (Air = 1)	no data available
Bulk density	ca. 55.5 lb/ft ³ (loose)



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Evaporation rate	not applicable
Boiling Point	not applicable
Melting / Freezing Point	not applicable
Water solubility	soluble
Minimum Ignition Energy	no data available
Decomposition temperature	no data available
Partition coefficient: n-octanol/water	no data available
Viscosity	not applicable
Flash point	not applicable
Autoignition temperature	no data available
Lower explosion limit	not applicable
Upper explosion limit	not applicable
Explosivity	no data available
Dust explosion class	no data available

SECTION 10: STABILITY AND REACTIVITY

Reactivity

Thermal decomposition	no data available
Chemical stability	Stable under recommended storage conditions.
Possibility of hazardous reactions	No hazardous reactions known.
Conditions to avoid	no data available
Incompatible materials	Strong acids
Hazardous decomposition products	no data available

SECTION 11: TOXICOLOGICAL INFORMATION

Exposure routes	Skin contact, Eye contact
Immediate Effects	



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Skin May be harmful if absorbed through skin.

Information on toxicological effects

Acute oral toxicity LD50 (rat) > 5,050 mg/kg

Acute inhalation toxicity LC50 (rat) > 26.1 mg/l
Exposure time: 4 h
Determined in the form of dust.

LC50 (rat) > 100 mg/l
Exposure time: 1 h
Determined in the form of dust.
Extrapolated from the 4 hr LC50.

Acute dermal toxicity LD50 (rabbit) > 2,020 mg/kg

Skin irritation No skin irritation (rabbit)

Eye irritation No eye irritation (rabbit)

Sensitisation Non-sensitizing. (guinea pig)

Assessment repeated dose toxicity

Deltamethrin caused neurobehavioral effects and/or neuropathological changes in animal studies. The toxic effects of Deltamethrin are related to transient hyperactivity typical for pyrethroid neurotoxicity.

Assessment mutagenicity

Deltamethrin was not mutagenic or genotoxic in a battery of in vitro and in vivo tests.

Assessment carcinogenicity

Deltamethrin was not carcinogenic in lifetime feeding studies in rats and mice.

ACGIH

Crystalline quartz (respirable)	14808-60-7	Group A2
---------------------------------	------------	----------

NTP

Crystalline quartz (respirable)	14808-60-7
---------------------------------	------------

IARC

Deltamethrin	52918-63-5	Overall evaluation: 3
Crystalline quartz (respirable)	14808-60-7	Overall evaluation: 1

OSHA

None.

Assessment toxicity to reproduction

Deltamethrin did not cause reproductive toxicity in a two-generation study in rats.

Assessment developmental toxicity

Deltamethrin caused developmental toxicity only at dose levels toxic to the dams. The developmental effects seen with Deltamethrin are related to maternal toxicity.



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Further information

Only acute toxicity studies have been performed on the formulated product.
The non-acute information pertains to the active ingredient(s).

SECTION 12: ECOLOGICAL INFORMATION

Toxicity to fish	LC50 (Oncorhynchus mykiss (rainbow trout)) 0.00091 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient deltamethrin.
Toxicity to aquatic invertebrates	EC50 (Daphnia magna (Water flea)) 0.00056 mg/l Exposure time: 48 h The value mentioned relates to the active ingredient deltamethrin.
Toxicity to aquatic plants	EC50 (Algae) > 9.1 mg/l Exposure time: 96 h The value mentioned relates to the active ingredient deltamethrin.
Biodegradability	Deltamethrin: not rapidly biodegradable
Koc	Deltamethrin: Koc: 10240000
Bioaccumulation	Deltamethrin: Bioconcentration factor (BCF) 1,400 Does not bioaccumulate.
Mobility in soil	Deltamethrin: Immobile in soil
Environmental precautions	Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate surface or ground water by cleaning equipment or disposal of wastes, including equipment wash water. Apply this product as specified on the label.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste treatment methods

Product	Pesticide, spray mixture or rinse water that cannot be used according to label instructions may be disposed of on site or at an approved waste disposal facility. Follow advice on product label and/or leaflet.
Contaminated packaging	Triple rinse containers. Dispose of empty container in a sanitary landfill or by incineration, or, if allowed by State/Provincial and local authorities, by burning. If burned, stay out of smoke. Follow advice on product label and/or leaflet.

Bayer Environmental Science

SAFETY DATA SHEET



DELTADUST® INSECTICIDE

Version 4.0 / USA
10200004846

9/11
Revision Date: 10/06/2015
Print Date: 10/07/2015

RCRA Information

Characterization and proper disposal of this material as a special or hazardous waste is dependent upon Federal, State and local laws and are the user's responsibility. RCRA classification may apply.

SECTION 14: TRANSPORT INFORMATION

49CFR Not dangerous goods / not hazardous material

IMDG

UN number	3077
Class	9
Packaging group	III
Marine pollutant	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DELTAMETHRIN MIXTURE)

IATA

UN number	3077
Class	9
Packaging group	III
Environm. Hazardous Mark	YES
Proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (DELTAMETHRIN MIXTURE)

This transportation information is not intended to convey all specific regulatory information relating to this product. It does not address regulatory variations due to package size or special transportation requirements.

Freight Classification: INSECTICIDES OR FUNGICIDES, N.O.I., OTHER THAN POISON

SECTION 15: REGULATORY INFORMATION

EPA Registration No. 432-772

US Federal Regulations

TSCA list

Crystalline quartz (respirable) 14808-60-7

Calcium carbonate 1317-65-3

US. Toxic Substances Control Act (TSCA) Section 12(b) Export Notification (40 CFR 707, Subpt D)

None.

SARA Title III - Section 302 - Notification and Information

None.

SARA Title III - Section 313 - Toxic Chemical Release Reporting

None.

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SAFETY DATA SHEET



DELTADUST® INSECTICIDE

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US States Regulatory Reporting

CA Prop65

This product contains a chemical known to the State of California to cause cancer.
Crystalline quartz (respirable) 14808-60-7

This product does not contain any substances known to the State of California to cause reproductive harm.

US State Right-To-Know Ingredients

Crystalline quartz (respirable)	14808-60-7	MN
Calcium carbonate	1317-65-3	MN

Canadian Regulations

Canadian Domestic Substance List

None.

Environmental

CERCLA

None.

Clean Water Section 307 Priority Pollutants

None.

Safe Drinking Water Act Maximum Contaminant Levels

None.

EPA/FIFRA Information:

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information required on the pesticide label:

Signal word: Caution!

Hazard statements: May be harmful if absorbed through skin.
Avoid contact with skin, eyes and clothing.
Wash thoroughly with soap and water after handling.

SECTION 16: OTHER INFORMATION

Abbreviations and acronyms

49CFR	Code of Federal Regulations, Title 49
ACGIH	US. ACGIH Threshold Limit Values
CAS-Nr.	Chemical Abstracts Service number
EINECS	European inventory of existing commercial substances
ELINCS	European list of notified chemical substances
IARC	US. IARC Monographs on Occupational Exposures to Chemical Agents
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods

Bayer Environmental Science

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102000004846

11/11
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N.O.S.	Not otherwise specified
NTP	US. National Toxicology Program (NTP) Report on Carcinogens
OECD	Organization for Economic Co-operation and Development
TDG	Transportation of Dangerous Goods
TWA	Time weighted average
UN	United Nations
WHO	World health organisation

NFPA 704 (National Fire Protection Association):

Health - 1 Flammability - 0 Instability - 0 Others - none

HMIS (Hazardous Materials Identification System, based on the Third Edition Ratings Guide)

Health - 0 Flammability - 0 Physical Hazard - 0 PPE -

0 = minimal hazard, 1 = slight hazard, 2 = moderate hazard, 3 = severe hazard, 4 = extreme hazard

Reason for Revision: The following sections have been revised: Section 15: Regulatory information.

Revision Date: 10/06/2015

This information is provided in good faith but without express or implied warranty. The customer assumes all responsibility for safety and use not in accordance with label instructions. The product names are registered trademarks of Bayer.



Precor 2000[®] Plus

Premise Spray

- TREATS 2000 SQ. FT.
- CONTAINS PRECOR[®] INSECT GROWTH REGULATOR PLUS ADULTICIDES
- CONTROLS FLEAS AND TICKS
- FAST-ACTING FORMULA
- FOR USE IN COMMERCIAL/INDUSTRIAL BUILDINGS
- PREVENTS REINFESTATION AND FLEA BUILD-UP FOR 210 DAYS

SPECIMEN LABEL

ACTIVE INGREDIENTS:

(S)-Methoprene (CAS #65733-16-6) 0.085%
 Permethrin (CAS #52645-53-1) 0.350%
 Phenothrin (CAS #26002-80-2) 0.300%
 N-octyl bicycloheptene dicarboximide
 (CAS #113-48-4) 2.000%
 Piperonyl butoxide, Technical*
 (CAS #51-03-6) 1.400%

OTHER INGREDIENTS**: 95.865%

TOTAL: 100.000%

* Consists of 1.120% [butylcarbityl](6-propylpiperonyl) ether and 0.280% related compounds. **Contains petroleum distillates.

EPA Reg No. 2724-490

KEEP OUT OF REACH OF CHILDREN
CAUTION
 SEE ADDITIONAL PRECAUTIONARY STATEMENTS

INTRODUCTION

Precor 2000[®] Plus kills adult fleas, hatching flea eggs, flea larvae, and ticks. PRECOR[®], the unique ingredient in Precor 2000[®] Plus provides 210 days' protection by preventing eggs from ever developing into biting fleas. For best results, use Precor 2000[®] Plus with Petcor[®] on-animal products for complete control of fleas and ticks.

READ ENTIRE LABEL BEFORE USE. NOT FOR USE ON HUMANS OR PETS.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS – CAUTION

Avoid contact with skin or clothing. Wash hands thoroughly with soap and water after handling and

before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

FIRST AID	
If on skin or clothing	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Do not induce vomiting unless told to do so by a poison control center or doctor. • Do not give ANY liquid to the person. • Do not give anything by mouth to an unconscious person.
<p>In case of emergency, call 1-800-248-7763 or a poison control center. Have the product container or label with you when calling a poison control center or doctor or going for treatment.</p>	
<p>NOTE TO PHYSICIAN/VETERINARIAN: Contains petroleum distillates – vomiting may cause aspiration pneumonia.</p>	

PHYSICAL OR CHEMICAL HAZARDS

Contents under pressure. Do not use or store near heat or open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

SHAKE WELL BEFORE USING.

FOR USE IN THE HOME/GARAGE/KENNEL

1. **Identify treatment areas**, especially those where pets frequent, such as in and around pet's sleeping and resting areas. These are the primary areas where fleas, their eggs, and ticks are found. Before treatment, make a test application to upholstery, drapery, light-colored, delicate fabrics, or wood surfaces in an inconspicuous place.
2. **Prepare treatment areas.** Cover all food processing surfaces and utensils during treatment or thoroughly wash after product use. Cover or remove exposed food. Remove pets, and cover and unplug aquariums before spraying. Remove motor vehicles before using in garages. For best results with Surface/Carpet treatments, vacuum thoroughly before spraying and discard vacuum bag in outside trash. This product may also be used for infested surfaces inside motor vehicles.
3. **Apply treatment.** For flea/tick infestations, a single can treats 2000 square feet. Hold container upside down 2-3 feet from surface, point actuator towards the surface and push button. Using a sweeping motion, apply a light, uniform spray to all surfaces of furniture, rugs, carpets, drapes, and around all pet resting areas. Avoid thoroughly wetting surfaces. Mist treated areas only until "slightly damp". Do not over-treat. Reapply in 14 days, if necessary. **IMPORTANT:** Only complete and proper application to carpets, upholstery, drapes, and other fabrics will provide thorough flea/tick elimination. Keep people and pets out of areas during treatment. Vacate room after treatment, and ventilate until surfaces are dry before reoccupying.
4. For best results, eliminate fleas/ticks on pets with appropriate Petcor® on-animal products.

FOR USE IN HOSPITALS, HOTELS, MOTELS, OFFICES, SCHOOLS, SUPERMARKETS, TRANSPORTATION EQUIPMENT (BUSES, BOATS, SHIPS, TRAINS, TRUCKS), WAREHOUSES, UTILITIES, VETERINARY CLINICS AND OTHER COMMERCIAL AND INDUSTRIAL BUILDINGS

1. **Prepare treatment areas.** For best results with Surface/Carpet treatments, vacuum thoroughly before spraying and discard vacuum bag in outside trash. Test in an inconspicuous area before treating. Cover all food processing surfaces and utensils during treatment or thoroughly wash after product use. Cover or remove exposed food. Keep people and pets out of areas during treatment. Cover and unplug aquariums before spraying. Vacate room after treatment, and thoroughly ventilate until surfaces are dry before reoccupying.
2. **Apply treatment.** For flea/tick infestations, a single can treats 2000 square feet. Hold container upside down 2-3 feet from surface, point actuator towards the surface and push button. Using a sweeping motion, apply a light uniform spray to all surfaces of furniture, rugs, carpets, drapes, and around all pet resting areas. Avoid thoroughly wetting surfaces. Mist treated areas only until "slightly damp". Do not over-treat. Reapply in 14 days, if necessary. **IMPORTANT:** Only complete and proper application to carpets, upholstery, drapes, and other fabrics will provide thorough flea/tick elimination.

STORAGE AND DISPOSAL

Storage: Store in a cool, dry area. Do not transport or store below 32°F. **Disposal:** Do Not Puncture or Incinerate! **If empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions.

WARRANTY AND CONDITIONS OF SALE

Seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risks of use and handling of this material when such use and handling are contrary to label instructions.

For information or in case of emergency, call **1-800-248-7763**.

www.zoecon.com

Wellmark International
1501 East Woodfield Road 200W
Schaumburg, Illinois 60173





Safety Data Sheet

Section 1: Identification

Product identifier

- Product Name** • **Precor 2000 Plus Premise Spray**
- Synonyms** • 100517677; 3006018; 3006301; 3006302; EPA Reg. No.: 2724-490; RF9910 Aerosol
- Product Description** • Clear to white aerosol spray.

Relevant identified uses of the substance or mixture and uses advised against

- Recommended use** • Insecticide.
- Restrictions on use** • Keep out of the reach of children. Avoid contact with skin, eyes and clothing. Keep away from heat, sparks and flame. Do not allow product to enter drain or any body of water.

Details of the supplier of the safety data sheet

- Manufacturer** • Wellmark International
1501 E. Woodfield Road, Suite 200W
Schaumburg, IL 60173
United States
www.zoecon.com

Emergency telephone number

- Manufacturer** • 1-800-248-7763
- Manufacturer (Transportation)** • 1-800-424-9300 - CHEMTREC
- Manufacturer (Transportation)** • 1-703-527-3887 - CHEMTREC - Outside North America - Collect Calls Accepted

Section 2: Hazard Identification

United States (US)

According to: OSHA 29 CFR 1910.1200 HCS

Classification of the substance or mixture

- OSHA HCS 2012**
- Aspiration 1
Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Flammable Aerosols 2
Skin Irritation 2
Skin Sensitization 1

Label elements

OSHA HCS 2012

DANGER



- Hazard statements** • May cause drowsiness or dizziness
 May be fatal if swallowed and enters airways
 Flammable aerosol
 Causes skin irritation
 May cause an allergic skin reaction

Precautionary statements

- Prevention** • Use only outdoors or in a well-ventilated area.
 Avoid breathing dust, fume, gas, mist, vapors and/or spray.
 Keep away from heat, sparks, open flames and/or hot surfaces. - No smoking.
 Do not spray on an open flame or other ignition source.
 Pressurized container: Do not pierce or burn, even after use.
 Wash thoroughly after handling.
 Wear protective gloves.
 Contaminated work clothing should not be allowed out of the workplace.
- Response** • IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
 Do NOT induce vomiting.
 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison control center or doctor if you feel unwell.
 IF ON SKIN: Wash with plenty of soap and water.
 If skin irritation or rash occurs: Get medical advice/attention.
 Take off contaminated clothing and wash before reuse.
- Storage/Disposal** • Dispose of content and/or container in accordance with local, regional, national, and/or international regulations.
 Store locked up.
 Store in a well-ventilated place. Keep container tightly closed.
 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Other hazards

OSHA HCS 2012

- Under United States Regulations (29 CFR 1910.1200 - Hazard Communication Standard), this product is considered hazardous.

Section 3 - Composition/Information on Ingredients

Substances

- Material does not meet the criteria of a substance according to United Nations Globally Harmonized System of Classification and Labeling of Chemicals (GHS)

Mixtures

Composition		
Chemical Name	Identifiers	%
(s)-Methoprene	CAS:65733-16-6	0.085%
Permethrin	CAS:52645-53-1	0.35%
Piperonyl butoxide	CAS:51-03-6	1.75%
Phenothrin	CAS:26002-80-2	0.3%
N-Octyl Bicycloheptene Dicarboximide	CAS:113-48-4	1.75%
Distillates (petroleum), hydrotreated light	CAS:64742-47-8	14%
Ethoxylated nonylphenol, branched	CAS:68412-54-4	1.8%
2-Pyrrolidinone, 1-octyl	CAS:2687-94-7	0.4%

Propane	CAS:74-98-6	7.08%
Butane	CAS:106-97-8	6.92%
Other ingredients	NDA	65.565%

Section 4: First-Aid Measures

Description of first aid measures

- Inhalation**
- IF INHALED: Remove person to fresh air and keep at rest in a position comfortable for breathing. Call a poison control center or doctor if you feel unwell.
- Skin**
- IF ON SKIN: Wash with plenty of soap and water. If irritation or rash occurs, get medical advice/attention.
- Eye**
- IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical attention if symptoms occur.
- Ingestion**
- IF SWALLOWED: Aspiration hazard - do NOT induce vomiting. Call a poison control center or doctor immediately for treatment advice.

Most important symptoms and effects, both acute and delayed

- Aspiration hazard, may cause dizziness or drowsiness if inhaled, causes skin irritation, may cause an allergic reaction in individuals with a sensitivity to piperonyl butoxide and/or n-octyl bicycloheptene dicarboximide. Refer to Section 11 - Toxicological Information.

Indication of any immediate medical attention and special treatment needed

- Notes to Physician**
- Contains petroleum distillate vomiting may cause aspiration pneumonia. Treat symptomatically and supportively.

Section 5: Fire-Fighting Measures

Extinguishing media

- Suitable Extinguishing Media**
- LARGE FIRE: Water spray, fog or regular foam.
SMALL FIRES: Dry chemical, CO₂, water spray or regular foam.

- Unsuitable Extinguishing Media**
- Avoid heavy hose streams.

- Firefighting Procedures**
- Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.
As an immediate precautionary measure, isolate spill or leak area for at least 50 meters (150 feet) in all directions.

Special hazards arising from the substance or mixture

- Unusual Fire and Explosion Hazards**
- At temperatures above 130°F, container may rupture.
Flammable aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

- Hazardous Combustion Products**
- Thermal degradation may produce oxides of carbon, oxides of nitrogen and/or volatile hydrocarbon vapors.

Advice for firefighters

- Wear positive pressure self-contained breathing apparatus (SCBA).

Section 6 - Accidental Release Measures

Personal precautions, protective equipment and emergency procedures

- Personal Precautions**
- Approach leaking or punctured pressurized containers cautiously. Isolate leaking container from all sources of ignition. Avoid breathing fumes. Ventilate enclosed areas.
- Emergency Procedures**
- ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate

area). Avoid unnecessary personnel and equipment traffic in the spill area. Turn off electric power to area. Stay upwind. Ventilate closed spaces before entering. Do not allow runoff into water, storm drains or drainage ditches.

Environmental precautions

- Avoid run off to waterways and sewers.

Methods and material for containment and cleaning up

Containment/Clean-up Measures

- Keep away from fire, sparks and heated surfaces.
SMALL SPILLS: Take up with sand or other non-combustible absorbent material and place into containers for later disposal.

Section 7 - Handling and Storage

Precautions for safe handling

Handling

- Do not use or store near heat or open flame. Do not smoke while using this product. Contents under pressure, do not crush, puncture or incinerate. Avoid breathing fumes.

Conditions for safe storage, including any incompatibilities

Storage

- Store in a cool, dry place. Keep out of reach of children. Keep away from sources of ignition – No Smoking. Store locked up. Store in a well-ventilated place. Keep container tightly closed. Keep at a temperature not exceeding 122°F (50°C). Keep from freezing.

Incompatible Materials or Ignition Sources

- Heat, sparks, open flame.

Section 8 - Exposure Controls/Personal Protection

Control parameters

Exposure Limits/Guidelines				
	Result	ACGIH	NIOSH	OSHA
Butane (106-97-8)	STELs	1000 ppm STEL	Not established	Not established
	TWAs	Not established	800 ppm TWA; 1900 mg/m3 TWA	Not established
Propane (74-98-6)	TWAs	1000 ppm TWA (listed under Aliphatic hydrocarbon gases: Alkane C1-4)	1000 ppm TWA; 1800 mg/m3 TWA	1000 ppm TWA; 1800 mg/m3 TWA

Exposure controls

Engineering Measures/Controls

- Use adequate ventilation to remove vapors (fumes, dust etc)

Personal Protective Equipment

Pictograms



Respiratory

- In case of insufficient ventilation, wear suitable NIOSH approved respiratory protection.

Eye/Face

- Wear safety glasses.

Hands

- Impervious gloves. Some materials that are chemical resistant to this product are Barrier Laminate, Nitrile Rubber, Neoprene Rubber or Viton.

Skin/Body

- It is recommended for handlers to wear appropriate clothing to prevent skin contact including long sleeves, long pants, socks and shoes.

Environmental Controls

- **Exposure** Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways.

Section 9 - Physical and Chemical Properties

Information on Physical and Chemical Properties

Material Description			
Physical Form	Aerosol	Appearance/Description	White to clear aerosol spray.
Color	White to clear.	Odor	No data available.
Aerosol Type	Spray	Odor Threshold	No data available
General Properties			
Boiling Point	No data available	Melting Point/Freezing Point	No data available
Decomposition Temperature	No data available	Heat of Decomposition	No data available
pH	No data available	Specific Gravity/Relative Density	No data available
Water Solubility	No data available	Viscosity	No data available
Volatility			
Vapor Pressure	No data available	Vapor Density	No data available
Evaporation Rate	No data available	VOC (Wt.)	No data available
VOC (Vol.)	No data available		
Flammability			
Flash Point	Not relevant	UEL	No data available
LEL	No data available	Heat of Combustion (ΔH_c)	6.98 kJ/g
Flame Extension	1 in	Flammability (solid, gas)	Flammable aerosol.
Environmental			
Octanol/Water Partition coefficient	No data available		

Section 10: Stability and Reactivity

Reactivity

- Non-reactive under normal handling and storage conditions.

Chemical stability

- Stable under normal temperatures and pressures.

Possibility of hazardous reactions

- Flammable, aerosols exposed to high temperatures may rupture, rocket and cause secondary hazards.

Conditions to avoid

- Heat, sparks, open flame. Excess heat.

Incompatible materials

- Heat, strong acids, strong bases and oxidizing agents.

Hazardous decomposition products

- Hazardous decomposition may occur when heated producing oxides of carbon and nitrogen, volatile hydrocarbon vapors.

Section 11 - Toxicological Information

Information on toxicological effects

CAS

Precor 2000 Plus Premise Spray	NDA	Acute Toxicity: Ingestion/Oral-Rat LD50 • >5000 mg/kg 14 Day(s); Inhalation-Rat LC50 • >2.12 mg/L 4 Hour(s); Skin-Rabbit LD50 • >5050 mg/kg 24 Hour(s); Irritation: Eye-Rabbit • Mild irritation; Skin-Rabbit • Moderate irritation
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GHS Properties	Classification
Acute toxicity	OSHA HCS 2012 • Acute Toxicity - Dermal - Classification criteria not met; Acute Toxicity - Inhalation - Classification criteria not met; Acute Toxicity - Oral - Classification criteria not met
Aspiration Hazard	OSHA HCS 2012 • Aspiration 1
Carcinogenicity	OSHA HCS 2012 • Classification criteria not met
Germ Cell Mutagenicity	OSHA HCS 2012 • Classification criteria not met
Skin corrosion/Irritation	OSHA HCS 2012 • Skin Irritation 2
Skin sensitization	OSHA HCS 2012 • Skin Sensitizer 1
STOT-RE	OSHA HCS 2012 • Classification criteria not met
STOT-SE	OSHA HCS 2012 • Specific Target Organ Toxicity Single Exposure 3: Narcotic Effects
Toxicity for Reproduction	OSHA HCS 2012 • Classification criteria not met
Respiratory sensitization	OSHA HCS 2012 • Classification criteria not met
Serious eye damage/Irritation	OSHA HCS 2012 • Classification criteria not met

Potential Health Effects

Inhalation

- Acute (Immediate)** • May cause drowsiness and dizziness.
- Chronic (Delayed)** • No data available

Skin

- Acute (Immediate)** • Causes skin irritation. May cause an allergic reaction in individuals with a sensitivity to piperonyl butoxide and/or n-octyl bicycloheptene dicarboximide.
- Chronic (Delayed)** • No data available.

Eye

- Acute (Immediate)** • Under normal conditions of use, no health effects are expected.
- Chronic (Delayed)** • No data available

Ingestion

- Acute (Immediate)** • Aspiration Hazard - may be fatal if swallowed and enters airways.
- Chronic (Delayed)** • No data available

Section 12 - Ecological Information

Toxicity

Component	CAS	Data
(s)-Methoprene (0.085%)	65733-16-6	Crustacea: NOEC Crustacea <i>Mysid shrimp</i> 0.014 mg/L [Chronic]; 96 Hour(s) LC50 Crustacea <i>Mysid shrimp</i> 0.11 mg/L [Acute]; 48 Hour(s) LC50 Crustacea <i>Daphnia magna</i> 0.36 mg/L [Acute]; Fish: 96 Hour(s) LC50 Fish <i>Rainbow Trout</i> 0.76 mg/L [Acute]; 96 Hour(s) LC50 Fish <i>Blue Gill</i> >0.37 mg/L [Acute]; NOEC Fish <i>Fathead minnow</i> 0.048 mg/L [Chronic]
		Crustacea: NOEC Crustacea <i>Daphnia magna</i> 0.000039 mg/L [Chronic]; NOEC Crustacea <i>Mysid shrimp</i> 0.000011 mg/L [Chronic]; LC50 Crustacea <i>Hexagenia bilineata</i> 0.0001 mg/L [Acute]; 96 Hour

Permethrin (0.35%)	52645-53-1	(s) LC50 Crustacea <i>Mysid shrimp</i> 0.000019 mg/L [Acute]; Fish: 96 Hour(s) LC50 Fish <i>Blue gill</i> 0.00079 mg/L [Acute]; 96 Hour(s) LC50 Fish <i>Atlantic silverside</i> 0.0022 mg/L [Acute]; NOEC Fish <i>Fathead minnow</i> 0.0003 mg/L [Chronic]; NOEC Fish <i>Sheepshead minnow</i> 0.00083 mg/L [Chronic]
Piperonyl butoxide (1.75%)	51-03-6	Crustacea: LC50 Crustacea <i>Gammarus fasciatus (amphipod)</i> 0.51 mg/L [Acute]; LC50 Crustacea <i>Mysid shrimp</i> 0.49 mg/L [Acute]; NOEC Crustacea <i>Daphnia magna</i> 0.03 mg/L [Chronic]; Fish: LC50 Fish <i>Rainbow Trout</i> 1.9 mg/L [Acute]; LC50 Fish <i>Sheepshead minnow</i> 3.94 mg/L [Acute]; NOEC Fish <i>Fathead minnow</i> 0.04 mg/L [Chronic]
Phenothrin (0.3%)	26002-80-2	Crustacea: NOEC Crustacea <i>Daphnia magna</i> 0.00047 mg/L [chronic]; 48 Hour(s) LC50 Crustacea <i>Daphnia magna</i> 0.0044 mg/L [acute]; 96 Hour(s) LC50 Crustacea <i>Mysid shrimp</i> 0.000025 mg/L [acute]; Fish: 96 Hour(s) LC50 Fish <i>Rainbow trout</i> 0.0027 mg/L [acute]; 96 Hour(s) LC50 Fish <i>Blue gill</i> 0.0158 mg/L [acute]; NOEC Fish <i>Rainbow trout</i> 0.0011 mg/L [chronic]
N-Octyl Bicycloheptene Dicarboximide (1.75%)	113-48-4	Crustacea: 48 Hour(s) LC50 Crustacea <i>Daphnia magna</i> 2.3 mg/L [Acute]; Fish: LC50 Fish 1.4-2.4 mg/L [Acute]

Persistence and degradability

- No data available

Bioaccumulative potential

- No data available

Mobility in Soil

- No data available

Other adverse effects

Potential Environmental Effects

- No data available.

Section 13 - Disposal Considerations

Waste treatment methods

Product waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not allow entry into storm drains, drainage ditches, gutters or surface waters.

Packaging waste

- Dispose of content and/or container in accordance with local, regional, national, and/or international regulations. Do not puncture or incinerate.

Section 14 - Transport Information

	UN number	UN proper shipping name	Transport hazard class (es)	Packing group	Environmental hazards
DOT	UN1950	Aerosols (contains Phenothrin)	2.1	Not Applicable	Marine Pollutant
IMO/IMDG	UN1950	Aerosols (contains Phenothrin)	2.1	Not Applicable	Marine Pollutant
IATA/ICAO	UN1950	Aerosols, flammable	2.1	Not Applicable	Not Applicable

Special precautions for user

- None specified.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

- No data available

Other information

IMO/IMDG • No data available

IATA/ICAO • No data available

Key to abbreviations

= N/A = Not applicable.

Section 15 - Regulatory Information

Safety, health and environmental regulations/legislation specific for the substance or mixture

SARA Hazard Classifications • Acute, SARA Title III Section 313

FIFRA – Pesticide Labeling

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

CAUTION

Precautionary Statements • KEEP OUT OF THE REACH OF CHILDREN.

Hazards to Humans and Domestic Animals • HAZARDS TO HUMANS AND DOMESTIC ANIMALS-CAUTION: Avoid contact with skin or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

First Aid • IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Immediately call a poison control center or doctor for treatment advice. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give ANY liquid to the person. Do not give anything by mouth to an unconscious person.

Note to Physician: Contains petroleum distillate - vomiting may cause aspiration pneumonia.

Physical or Chemical Hazards • Contents under pressure. Do not use or store near open flame. Do not puncture or incinerate container. Exposure to temperatures above 130°F may cause bursting.

Inventory		
Component	CAS	TSCA
(s)-Methoprene	65733-16-6	No
2-Pyrrolidinone, 1-octyl	2687-94-7	Yes
Butane	106-97-8	Yes
Distillates (petroleum), hydrotreated light	64742-47-8	Yes
N-Octyl Bicycloheptene Dicarboximide	113-48-4	No
Permethrin	52645-53-1	No
Phenothrin	26002-80-2	No
Ethoxylated nonylphenol, branched	68412-54-4	Yes
Piperonyl butoxide	51-03-6	Yes
Propane	74-98-6	Yes

United States

Environment

U.S. - CERCLA/SARA - Section 313 - Emission Reporting

• Ethoxylated nonylphenol, branched	68412-54-4	Not Listed
• Propane	74-98-6	Not Listed
• Butane	106-97-8	Not Listed
• (s)-Methoprene	65733-16-6	Not Listed
• Permethrin	52645-53-1	1.0 % de minimis concentration
• Distillates (petroleum), hydrotreated light	64742-47-8	Not Listed
• 2-Pyrrolidinone, 1-octyl	2687-94-7	Not Listed
• Piperonyl butoxide	51-03-6	1.0 % de minimis concentration
• N-Octyl Bicycloheptene Dicarboximide	113-48-4	Not Listed
• Phenothrin	26002-80-2	1.0 % de minimis concentration

Section 16 - Other Information

Last Revision Date	• 20/July/2015
Preparation Date	• 20/July/2015
Disclaimer/Statement of Liability	• The information and statements herein are believed to be reliable but are not to be construed as a warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.

Pyrocide 100[®]

Specimen Label

- Effective and fast-acting
- Provides flushing action and quick knockdown
- For indoor use as a ULV, space, area or contact spray

ACTIVE INGREDIENTS:

Pyrethrins.....	1.00%
*Piperonyl butoxide.....	2.00%
**N-Octyl bicycloheptene dicarboximide.....	2.87%
***OTHER INGREDIENTS	94.13%
	100.00%

* (butylcarbityl) (6-propylpiperonyl) ether and related compounds.

** MGK[®] 264, Insecticide Synergist

*** Contains petroleum distillates



KEEP OUT OF REACH OF CHILDREN

CAUTION

See inside for first aid and precautionary statements.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

READ ALL DIRECTIONS COMPLETELY BEFORE USE

GENERAL PRECAUTIONS AND RESTRICTIONS:

- FOR INDOOR USE ONLY.

- Do not enter or allow others to enter until sprays have dried.
- Do not allow adults, children, or pets to enter the treated area for at least 15 minutes, until vapors, mists, and aerosols have dispersed, and the treated area has been thoroughly ventilated.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.
- Do not use in aircraft cabins.
- Do not remain in treated area. Exit area immediately and remain outside the treated area until aerosols, vapors, and/or mists have dispersed.
- Remove or cover exposed food and drinking water before application.
- Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces, or wash them before use.
- Do not make space spray applications when facility is in operation.
- Prior to space spray applications, cover or remove food.

- Prior to space spray applications, cover food processing surfaces or clean after treatment and before use.
- Do not apply more than 1 time per day.
- Not for use in outdoor residential misting systems.
- Remove pets, birds, and cover fish aquariums before use.
- Do not apply directly into sewers or drains, or to any area like a gutter where drainage to storm sewers, water bodies, or aquatic habitat can occur. Do not allow the product to enter any drain during or after application.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.

GENERAL:

This concentrate is designed for use undiluted in mechanical sprayers that give particles of aerosol size. It can be diluted with refined kerosenes, which meet Food Additive Regulation as defined by CFR Title 21, 172.884, and applied in fogging equipment that give larger than aerosol particle size. It can also be diluted with the oil specified above and applied as a contact spray to kill crawling insects shown later on this label.

For the control of insects, including, but not limited to:

Almond Moths	Earwigs	Millipedes
Angoumois	Face Flies	Mosquitoes
Grain Moths	Firebrats	Palmetto Bugs
Ants	Flat Grain Beetles	Pillbugs
Black Flies	Fleas	Red Flour Beetles
Box Elder Bugs	Flies	Rice Flour Beetles
Brown Dog Ticks	Flying Moths	Rice Weevils
Cadellles	Fruit Flies	Rusty Grain Beetles
Carpet Beetles	Fungus Gnats	Saw-toothed Grain Beetles
Cereal Beetles	Gnats	Silverfish
Cheese Mites	Grain Mites	Skipper Flies
Cheese Skippers	Granary Weevils	Small Flying Moths
Chocolate Moths	Hide Beetles	Spiders
Cigarette Beetles	Horn Flies	Spider Beetles
Clothes Moths	Hornets	Stable Flies
Clover Mites	Horseflies	Sowbugs
Cockroaches	Indian Meal Moths	Ticks
Coffee Bean Weevils	Khapra Beetles	Ticks that may carry and transmit Lyme disease
Confused Flour Beetles	Lesser Grain Beetles	Tobacco Moths
Crickets	Lesser Grain Borers	Warehouse Beetles
Dark Mealworms	Lesser House Flies	Wasps
Darkling Beetles	Mediterranean Flour Moths	Waterbugs
Deer Flies	Merchant Grain Beetles	Yellow Jackets
Dermestid Beetles	Midges	Yellow Mealworms
Dried Fruit Beetles	Miller Moths	
Drugstore Beetles		

INDOOR AREAS for use in and around but not limited to [such as]:

Animal Areas and Quarters	Animal Control Centers	Animal Shelters	Apartments	Arcades	Attics	Auditoriums	Bakeries	Bars	Basements	Bathrooms	Beverage Plants	Bottling Plants	Breweries	Brewery Warehouses	Buildings	Buses	Cabinets	Cabins	Cafeterias	Campers	Canneries	Churches	City Missions	Circus Tents	Closets	Clubhouses	Commercial Buildings	Communication Centers	Condominiums	Concession Stands	Court Houses	Crawl Spaces	Crematoriums	Day Care Centers	Delicatessens	Department Stores	Diners	Dog Houses	Drugstores	Dwellings	Egg Processing Plants	Factories	False Ceilings	Freight Containers	Fruit Packing Sheds	Funeral Parlors	Garages	Garbage Compactors	Garbage Trucks	Gas Stations	Grain Elevators	Grain Harvesting and Handling Equipment	Grain Mills	Granaries	Grocery Stores	Homes	Horse Stables and Barns	Horse Trailers	Hospices	Hospitals	Hotels	Indoor Eating Establishments	Industrial Installations	Institutional Dining Areas	Institutions	Jails	Kennels	Laboratories	Laundromats	Lavatories	Libraries	Liquor Stores	Locker Rooms	Mausoleums	Meat Packing Plants	Mess Halls	Mini-Storages	Mobile Canteens	Mobile Homes	Morgues	Mortuaries	Motels	Movie Theaters	Museums	Nursing Homes	Office Buildings	Other Public Buildings	Parking Garages	Pool Halls	Prisons	Public Storage	Railroad Cars	Recreational Vehicles	Research Animal Quarters	Restaurants	Retail Stores	Rice Mills	Schools	Ship's Holds	Ships	Smoke Shops	Sports Stadiums	Stables	Storage Bins (areas)	Stored Food in multi-walled paper or cloth bags	Stores	Supermarkets	Taverns	Textile Mills and Warehouses	Theaters	Tobacco Factories	Tobacco Warehouses	Tool Sheds	Trains	Transportation Equipment	Truck Trailers	Trucks	Tunnels	Utilities	Utility Rooms	Vending Machines	Veterinary Hospitals	Wall and Equipment Voids	Warehouses	Washrooms	Wholesale Stores	Wine Cellars	Wineries	Zoos
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INDOOR USE-UNDILUTED

FOR USE IN HOMES, RESTAURANTS, FOOD PROCESSING PLANTS AND OTHER INDUSTRIAL AREAS:

ULV AND SPACE SPRAY: Use in aerosol generators to kill exposed accessible stages of: Flies (including fruit flies), Mosquitoes, Small Flying Moths, Fleas, Gnats, Wasps, Hornets, Clover Mites, Cheese Mites, Cheese Skippers, Box Elder Bugs, Earwigs, Ants and the following common Stored Product Pests: Granary Weevils, Rice Weevils, Confused Flour Beetles, Saw-toothed Grain Beetles, Spider Beetles, Cigarette Beetles, Drugstore Beetles, Angoumois Grain Moths, Mediterranean Flour Moths, Indian Meal Moths, Tobacco Moths, Yellow Mealworms, Dark Mealworms, Grain Mites, Cadellles, and Red Flour Beetles. Remove or cover exposed food and food handling surfaces. Close room and shut off all air conditioning or ventilating equipment. Apply at the rate of 1-1/2 fluid ounces undiluted concentrate per 1,000 cubic feet of space. Direct spray toward upper corners of room and ceiling.

CONTACT AND SPACE SPRAY: To kill Cockroaches, Silverfish, Earwigs, Ants and Spiders, use a mechanical aerosol generator or a fogger. Using no more than 34 fluid ounces per 1,000 square feet, direct the spray first into all cracks and crevices, behind all equipment, cupboards, obstructions, dark harborage areas, walls, floors, underneath sinks, behind pipes, and in all places that harbor insects to provide maximum penetration and impingement on the insects. Contact as many insects as possible. Then treat as a space spray. Apply at the rate of up to 3 fluid ounces per 1,000 cubic feet of space.

NOTE: If there is a need to treat such areas as conduits, motor housings, junction and switch boxes or other electrical equipment, turn off electrical equipment prior to application. After application, allow time for oil to dissipate before starting motors or placing switches in the "ON" position.

TREATMENT OF STORED FOOD AREAS: Foods in multi-walled bags, cloth bags or other packaging stored in such areas as listed for the control of accessible adult stages of, but not limited to, Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils, Khapra Beetle and other listed pests. Infested stored products should be destroyed, fumigated or treated by other effective methods using an approved product intended for this purpose. As noted above, using no more than 34 fluid ounces per 1,000 square feet, disperse first by directing spray into cracks and crevices, corners, pallets and around stacks of packaged goods, hitting as many insects as possible and then apply as a space spray at a dosage of 1-1/2 fluid ounces per 1,000 cubic feet of room space.

ON PEANUTS, NUTS, BEANS (INCLUDING COCOA), SEEDS AND COPRA IN BAGS OR OTHER PACKAGING: For the control of accessible stages of Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils, Khapra Beetles and other listed insects, apply to the surface of stored or bagged products. Also spray walls, floors and other surfaces, storage and handling areas thoroughly, being especially careful to treat cracks, crevices and similar hiding places, using no more than 34 fluid ounces per 1,000 sq. ft. Then apply as a space spray at the rate of 1-1/2 fluid ounces per 1,000 cubic feet of space by directing the spray toward the ceiling and upper corners of the area and behind any obstructions.

Contact and Space Spray - Undiluted - To kill Cockroaches: Using an appropriate ULV spraying device, inject the aerosol spray directly into cracks and crevices to completely fill wall, equipment and other small structural void areas. Do not apply more than 4.0 fluid ounces per 1,000 cubic feet. Leave room ventilation or air conditioning equipment on during application.

INDOOR USE-DILUTED

SPACE SPRAY: For use in mechanical fogging, thermal fogging or spraying equipment to control accessible stages of: Almond Moths, Angoumois Grain Moths, Ants, Cadelles, Cereal Beetles, Cheese Mites, Cheese Skippers, Chocolate Moths, Cigarette Beetles, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Drugstore Beetles, Earwigs, Firebrats, Flies, Fruit Flies, Fungus Gnats, Grain Mites, Granary Weevils, Hide Beetles, Indian Meal Moths, Mediterranean Flour Moths, Mosquitoes, Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles, Silverfish, Small Flying Moths, Spiders, Spider Beetles, Yellow Mealworms, Dried Fruit Beetles, Warehouse Beetles, Rusty Grain Beetles, Lesser Grain Beetles, Coffee Bean Weevils and Khapra Beetles. Remove or cover exposed food and cover food-handling surfaces in edible product areas of food handling establishments. Close room and shut off all air conditioning or ventilating equipment. Dilute concentrate with a white mineral oil conforming to Regulation 21 CFR 121.2589(b) or an odorless light petroleum hydrocarbon conforming to 121.1182 at the rate of 1 part concentrate to 9 parts oil and mix well. Apply at the equivalent rate of 5.0 fluid ounces of concentrate per 1,000 cubic feet of space, filling the room with mist.

SURFACE SPRAY: To control accessible stages of Ants, Drugstore Beetles, Earwigs, Cockroaches, Silverfish, Beetles, Box Elder Bugs, Clover Mites, Crickets and other listed insects, dilute 1 part concentrate plus 9 parts suitable diluent, mix well and apply as a coarse wetting spray, using approximately 1 gallon of spray mixture per 1,000 square feet of surface. To ensure maximum control of listed crawling insects, spray thoroughly into all cracks, molding, crevices, walls, floors, and other surfaces, storage and handling areas. Particular attention should be paid to areas

where moisture collects such as drains, sinks and water pipes, around the base of heavy machinery and equipment, contacting as many insects as possible. Ants: Spray directly into nests, along trails, and directly on all ants observed.

FOR USE IN TRANSIT PROTECTION: To control accessible stages of listed insects, clean and spray truck beds, boxcars, ship's holds and other listed transit equipment before loading. Dilute 1 part concentrate plus 9 parts suitable diluent, mix well and apply as a coarse wetting spray using approximately 1 gallon of spray mixture per 1,000 sq. ft. Thoroughly treat walls and floors. Spray each layer of cartons or containers lightly as stacked. To control Indian Mealworms and Angoumois Grain Moths in stored grain, apply to the surface of binned grain at a rate of 1 gallon of diluted product per 1,000 square feet. Apply at monthly intervals with the first appearance of moths and continuing until early fall. In case of severe infestation, break up webbing before spraying and make a second application in two weeks.

Contact Spray - Diluted for use with sprayers that give large, wetting spray particles to kill Cockroaches and accessible stages of granary insects: Cadelles, Confused Flour Beetles, Grain Mites, Granary Weevils, Meal Moth Larvae and Adults, Red Flour Beetles, Rice Weevils and Saw-toothed Grain Beetles. Cover or remove exposed food and close room as described above. Dilute concentrate with oil at the rate of 1 part concentrate plus 9 parts of oil or 15 ounces per gallon and mix well. Spray outside walls of grain bins, flooring, about base of milling machinery, walls and baseboards, areas behind cabinets, around pipes and other insect harborages, using 1 gallon spray per 1,000 square feet of space. Force spray into all cracks and crevices.

DRIED FRUIT PRODUCTS in storage or being processed, for control of Confused Flour Beetles, Dried Fruit Beetles, Indian Meal Moths and Saw-toothed Grain Beetles: Remove and destroy infested products. Dilute concentrate with oil at the rate of 1 part concentrate plus 9 parts oil or 15 ounces per gallon and mix well. Disperse this product as a fine mist in the air above the trays and shelves. Do not apply to fruit directly. Use 1 fluid ounce of concentrate per 1,000 cubic feet of space. Repeat application at this dosage in any given month. Sweep up and destroy fallen insects.

STORED FOOD: (stored in multi-wall bags or cloth bags) in flour mills, grain elevators, granaries, storage rooms, and warehouses for control of Angoumois Grain Moths, Cadelles, Cheese Mites, Cheese Skippers, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Grain Mites, Granary Weevils, Indian Meal Moths, Mediterranean Flour Moths, Red Flour Beetles, Rice Weevils, Saw-toothed Grain Beetles and Yellow Mealworms: Remove and destroy infested products. Dilute concentrate with oil at the rate of 1 part concentrate plus 9 parts oil or 15 ounces per gallon and mix well. Disperse this product first by directing spray into corners, under pallets and around stacks of packaged foods, hitting as many insects as possible and then treat as a space spray. Infested stored products should be fumigated or treated by other effective methods using an approved product intended for this purpose. Use an equivalent dosage of 1 fluid ounce of concentrate per 1,000 cubic feet of space. This application will kill accessible, exposed stages of those stored product pests listed above. Sweep up and destroy fallen insects.

Zoos: For indoor premises of zoos only. As a space spray diluted for use in conventional mechanical fogging equipment to kill Flies, Gnats, Mosquitoes and Small Flying Moths: dilute 1 part concentrate plus 9 parts oil (refined kerosene) and mix well. Apply at a rate of 2 fluid ounces of concentrate per 1,000 cubic feet of space above the animals. Direct spray towards upper portions of the enclosure, filling the room with mist.

FOR USE IN FEDERALLY INSPECTED MEAT AND POULTRY PLANTS: Apply undiluted with a ULV spraying device up to 3 fluid ounces per 1,000 cubic feet of space. Apply this spray into all cracks and crevices in woodwork, walls, floors, underneath sinks, behind pipes and in all places where these insects shelter, using up to but no more than 34 fluid ounces per 1,000 square feet. Contact as many insects as possible. Repeat as necessary, but not more than once a day, for control of exposed or accessible stages of Ants, Earwigs, Flies, Fruit Flies, Gnats, Mosquitoes, Silverfish, Small Flying Moths, Spiders and Waterbugs. Before spraying, exposed food products and packaging materials must be covered or removed. After spraying, equipment and utensils must be washed with an effective cleaning compound and rinsed with potable water prior to use. Use as a space spray only when plant is not in operation. Do not make space spray applications when facility is in operation.

NOTE: When using oil as the diluent, an odorless light petroleum hydrocarbon as defined by CFR Title 21, §172.884 should be used for all food area and food related applications. Additionally, when diluted and used according to label directions, this spray will meet specifications for use under USDA meat, poultry, shell egg grading, and egg products inspection programs.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep this product in a tightly closed container, when not in use. Store in a cool, dry (preferably locked) area. Post as a pesticide storage area. Always store pesticides in the original container. Store away from food, feed, seed, fertilizers, and veterinary supplies. Place formulations on lower shelves and dry formulations above.

PESTICIDE DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container.

Triple rinse container (or equivalent) promptly after emptying.

For containers with capacities equal to or less than 5 Gallons:

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Offer for recycling if available for reconditioning if appropriate, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

For containers with capacities greater than 5 gallons:

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closers. Tip the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

Harmful if swallowed. Harmful if absorbed through skin. Avoid contact with skin, eyes or clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Mixers, loaders, applicators, and other handlers must wear the following:

- long-sleeved shirt,
- long pants,
- chemical-resistant gloves made of barrier laminate, nitrile rubber, neoprene rubber, or viton, and
- shoes and socks.

In addition to the above PPE, applicators using a high-pressure wand in an enclosed area must wear at least a NIOSH-approved respirator with:

- a dust/mist filter with MSHA/NIOSH approval number prefix TC-21C, or
- any R, P, or HE filter.

In addition to the above PPE, applicators using handheld foggers in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with:

- a dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC-21C), or
- a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or
- a cartridge or canister with any R, P or HE filter.

USER SAFETY REQUIREMENTS

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.



Pyrocide 100

EPA Reg. No. 1021-1424
EPA Est. No. 1021-MN-2
Rev. 0413-0415

Discard clothing and other absorbent material that have been drenched or heavily contaminated with the product's concentrate. Do not reuse them.

USER SAFETY RECOMMENDATIONS

User should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

User should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

User should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to aquatic organisms, including fish and invertebrates. Drift and runoff may be hazardous to aquatic organisms in water adjacent to treated areas. This product may contaminate water through runoff. This product has a potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash-waters or rinsate.

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

FIRST AID

IF SWALLOWED:

- Immediately call a poison control center or doctor.
- Do not induce vomiting unless told to do so by a poison control center or a doctor.
- Do not give **any** liquid to the person.
- Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15-20 minutes.
- Call a poison control center or doctor for treatment advice.

IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lenses, if present, after the first 5 minutes. Then continue rinsing eyes.
- Call a poison control center or doctor for treatment advice.

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance. Then give artificial respiration, preferably mouth-to-mouth if possible.
- Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Contains petroleum distillates – vomiting may cause aspiration pneumonia.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information regarding medical emergencies or pesticide incidents, call 1-888-740-8712.

MGK

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8810 Tenth Avenue North, Minneapolis, MN 55427

2.5M-1111



SAFETY DATA SHEET

Issue Date: 20-Jan-2016

Revision Date: 20-Jan-2016

Version: 1

1. PRODUCT AND COMPANY IDENTIFICATION

Product identifier

Product Name: PYROCIDE® 100
EPA Registration Number: 1021-1424

Other means of identification

Part Code: 7338

Recommended use of the chemical and restrictions on use:

Recommended Use: Insecticide.

Details of the supplier of the safety data sheet

Manufacturer Address: McLaughlin Gormley King Company
8810 10th Avenue North
Minneapolis, MN 55427
Telephone Number: (800) 645-6466, or (763) 544-0341
e-Mail Address: mgk-sds@mgk.com

FAX #: (763) 544-6437

Emergency telephone numbers:

24 Hour TRANSPORTATION Emergency: CHEMTREC®: (800) 424-9300
International: (703) 527-3887

24 Hour MEDICAL Emergency: SafetyCall®: (888) 740-8712, or (952) 852-9509

Comments: MGK® Hours of operation are 8:00 am to 4:30 pm CST, 14:00 to 22:30 GMT.
For MEDICAL EMERGENCIES or PESTICIDE INCIDENTS, call 24 hours a day to
(888) 740-8712, or (952) 852-9509.

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status:

This chemical is considered hazardous by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200).

Skin sensitization	Category 1
Aspiration toxicity	Category 1
Flammable liquids	Category 4

Label elements

Emergency Overview

DANGER

Hazard statements

- H304 - May be fatal if swallowed and enters airways
- H317 - May cause an allergic skin reaction

- H402 - Harmful to aquatic life
- H412 - Harmful to aquatic life with long lasting effects
- H227 - Combustible liquid



Appearance: Clear , Yellow / Golden

Physical state: Liquid

Odor: Sweet

Precautionary Statements - Prevention:

- P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
- P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
- P272 - Contaminated work clothing should not be allowed out of the workplace
- P280 - Wear protective gloves/protective clothing/eye protection/face protection

Precautionary Statements - Response:

- P321 - Specific treatment (see Section 4/ First Aid).
- P302 + P352 - IF ON SKIN: Wash with plenty of soap and water
- P333 + P313 - If skin irritation or rash occurs: Get medical advice/attention
- P363 - Wash contaminated clothing before reuse
- P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician
- P331 - Do NOT induce vomiting
- P370 + P378 - In case of fire: Use CO2, dry chemical, or foam for extinction

Precautionary Statements - Storage:

- P405 - Store locked up
- P403 + P235 - Store in a well-ventilated place. Keep cool

Precautionary Statements - Disposal:

- P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC):

Do not use this product in or on electrical equipment due to the possibility of shock hazard.

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Chemical Name	CAS No	Weight-%
Pyrethrins	8003-34-7	1.00
Piperonyl Butoxide (PBO)	51-03-6	2.00
MGK®-264 Insecticide Synergist (n-Octyl bicycloheptene dicarboximide)	113-48-4	2.87
Petroleum distillates, hydrotreated light	64742-47-8	90<--->95 *

*The exact percentage (concentration) of composition has been withheld as a trade secret.

Comments: Ingredients not identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Aspiration pneumonia hazard: • May be fatal if swallowed and enters airways.

Description of first aid measures:

- Eye contact:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.
- Skin Contact:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.
- Ingestion:** If swallowed, IMMEDIATELY call a poison control center or doctor for treatment advice. DO NOT give **any** liquid to the person. Do not induce vomiting unless told to do so by a poison control center or a doctor. Never give anything by mouth to an unconscious person.
- Inhalation:** Remove affected person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
- Self-protection of the First Responder:** Use personal protective equipment as required.
- Note to physicians:** Contains petroleum distillates – vomiting may cause aspiration pneumonia.

For skin effects, a highly efficient therapeutic agent for Pyrethrin/ Pyrethroid exposure is topical application of tocopherol acetate (Vitamin E).

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Use. Dry chemical. Carbon dioxide (CO2). Water spray (fog). Alcohol resistant foam.

Unsuitable extinguishing media:

Caution: Use of water spray when fighting fire may be inefficient.

Hazardous combustion products: Carbon monoxide, Carbon dioxide (CO2).

Specific hazards arising from the chemical

Keep product and empty container away from heat and sources of ignition. Risk of ignition.

Explosion data

Sensitivity to Mechanical Impact: None.

Sensitivity to Static Discharge: None.

Protective equipment and precautions for firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

<u>NFPA</u>	Health hazards 2	Flammability 2	Instability 0	Physical and Chemical Properties
<u>HMS</u>	Health hazards 2	Flammability 2	Physical hazards 0	- Personal protection X

Chronic Hazard Star Legend * = Chronic Health Hazard

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Personal precautions: Use personal protective equipment as required. Remove all sources of ignition. Evacuate personnel to safe areas. Keep people away from and upwind of spill/leak. Pay attention to flashback. Take precautionary measures against static discharges.

Environmental precautions: Prevent entry into waterways, sewers, basements or confined areas. Do not flush into surface water or sanitary sewer system. Prevent further leakage or spillage if safe to do so. Prevent product from entering drains. See Section 12 for additional ecological information.

Methods and material for containment and cleaning up

Methods for containment: Prevent further leakage or spillage if safe to do so.

Methods for cleaning up: Cover liquid spill with sand, earth or other non-combustible absorbent material. Cover powder spill with plastic sheet or tarp to minimize spreading. Pick up and transfer to properly labeled containers. Soak up with inert absorbent material. Dam up. Take precautionary measures against static discharges.

7. HANDLING AND STORAGE

Precautions for safe handling

Advice on safe handling: Avoid contact with skin, eyes or clothing. Use personal protective equipment as required. Wash contaminated clothing before reuse. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product. Use with local exhaust ventilation. All equipment used when handling the product must be grounded. Keep away from heat/sparks/open flames/hot surfaces. - No smoking. Take necessary action to avoid static electricity discharge (which might cause ignition of organic vapors). For more information, see product label.

Conditions for safe storage, including any incompatibilities

Storage Conditions: Keep container tightly closed in a dry and well-ventilated place. Keep out of the reach of children. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep containers tightly closed in a cool, well-ventilated place. Keep away from heat. Keep in properly labeled containers. For more information, see product label.

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

Control parameters

Exposure Guidelines: This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Supplier OEL
Pyrethrins 8003-34-7	TWA: 5 mg/m ³	TWA: 5 mg/m ³ (vacated) TWA: 5 mg/m ³	IDLH: 5000 mg/m ³ TWA: 5 mg/m ³	-
Petroleum distillates, hydrotreated light 64742-47-8	-	-	-	TWA: 100 ppm TWA: 525 mg/m ³

NIOSH IDLH *Immediately Dangerous to Life or Health*

Other Information: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 965 F.2d 962 (11th Cir., 1992).

Appropriate engineering controls

Engineering Controls: Safety showers
Eyewash stations
Ventilation systems

Individual protection measures, such as personal protective equipment

Eye/face protection: Tight sealing safety goggles. Face protection shield.

Skin and body protection: Wear protective gloves and protective clothing.

Respiratory protection: If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Positive-pressure supplied air respirators may be required for high airborne contaminant concentrations. Respiratory protection must be provided in accordance with current local regulations.

General Hygiene Considerations: When using do not eat, drink or smoke. Regular cleaning of equipment, work area and clothing is recommended.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties:

Physical state: Liquid
Appearance: Clear , Yellow / Golden
Odor: Sweet
Odor threshold: No information available
Color (Gardner Scale): 6.5

<u>Property:</u>	<u>Values:</u>	<u>Comment: • Method</u>
pH:	No information available	Not applicable. Product not intended to be diluted in water. .
Melting point / freezing point:	No information available	
Boiling point / boiling range:	No information available	
Flash point:	83.3 °C / 182.0 °F	Tag Closed Cup;
Evaporation rate:	No information available	
Flammability (solid, gas):	No information available	
Upper flammability limit (UEL):	No information available	
Lower flammability limit (LEL):	No information available	
Vapor pressure:	No information available	
Vapor density:	No information available	
Specific Gravity:	No information available	
Water solubility:	No information available	
Partition coefficient; n-Octanol/ Water:	No information available	
Autoignition temperature:	No information available	
Decomposition temperature:	No information available	
Kinematic viscosity:	No information available	

Dynamic viscosity: 9 cPs @ 24.0°C.
Refractive Index: 1.4449 @ 25°C (77°F)

Other Information:

Density: 0.797 g/cm³ @ 20.0 °C
VOC Content (%): 0.04

Miscibility/ Solubility:

Water: Immiscible
Alcohol: Miscible
Aromatic solvents: Miscible
Petroleum distillates: Miscible

10. STABILITY AND REACTIVITY

Reactivity

No data available

Chemical stability

Stable under recommended storage conditions.

Possibility of Hazardous Reactions

None under normal processing.

Hazardous polymerization: Hazardous polymerization does not occur.

Conditions to avoid

Heat, flames and sparks.

Incompatible materials:

Incompatible with strong acids and bases. Incompatible with oxidizing agents.

Hazardous Decomposition Products

Carbon monoxide, Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Numerical measures of toxicity - Product Information

Oral LD₅₀ >5,000 mg/kg (rat)
Dermal LD₅₀ >2,000 mg/kg (rabbit)
Inhalation LC₅₀ >8.40 mg/L (rat; 4 hours)
Eye contact: Irritation clearing in 24 hours. (rabbit).
Skin Contact: Slight irritation at 72 hours. (rabbit).
Skin Irritation Index: 0.96

Sensitization: Sensitizer; skin. (guinea pig).

Comment: Some of the above toxicity data was bridged from the insecticide concentrate, that is used in manufacturing this end-use product.

Piperonyl Butoxide:	Marginally higher incidences of benign liver tumors in mice were observed following lifetime high dose exposures to PBO. The significance of these observations is questionable and under review. The doses at which tumors were observed for PBO greatly exceeded potential human exposure from labeled uses.
Carcinogenicity/ Oncogenicity:	Doses at which these effects were observed greatly exceeded anticipated human dietary intake. At anticipated dietary exposure levels, it is highly unlikely that this product will result in carcinogenic effects.
Carcinogenicity	This product does not contain any carcinogens or potential carcinogens as listed by OSHA, IARC or NTP.
Reproductive toxicity:	No information available.
Developmental Toxicity	No information available.
Teratogenicity:	No information available.
STOT - single exposure:	No information available.
STOT - repeated exposure:	No information available.
Chronic toxicity:	Avoid repeated exposure.

12. ECOLOGICAL INFORMATION

Ecotoxicity:

Persistence and degradability

No information available.

Bioaccumulation

No information available.

Other adverse effects: No information available

Environmental hazards (EPA):

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Disposal of wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations. For more information, see product label.

Contaminated packaging: For more information, see product label.

14. TRANSPORT INFORMATION

DOT (Department of Transportation)

UN/ID Number:	UN3082
Proper Shipping Name:	Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)
Hazard Class:	9
Packing Group:	III
Reportable Quantity (RQ):	Pyrethrins (1 Lb.)

Other Shipping Information: This material is **not** regulated as a hazardous material by the DOT in quantities less than 100 Lbs.

Shipping name for quantities less than 100 Lbs.:
Insecticides, Insect or Animal Repellent, Liquid

Air (IATA/ ICAO)

UN/ID Number: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)
Hazard Class: 9
Packing Group: III

Vessel (IMO/ IMDG)

UN/ID Number: UN3082
Proper Shipping Name: Environmentally hazardous substance, liquid, n.o.s., RQ (Pyrethrins)
Hazard Class: 9
Packing Group: III

15. REGULATORY INFORMATION

US Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372

Chemical Name	SARA 313 - Threshold Values %
Piperonyl Butoxide (PBO) - 51-03-6	1.0

SARA 311/312 Hazard

Categories

Acute health hazard	Yes
Chronic Health Hazard	No
Fire hazard	Yes
Sudden release of pressure hazard	No
Reactive Hazard	No

CWA (Clean Water Act)

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

Chemical Name	CWA - Reportable Quantities	CWA - Toxic Pollutants	CWA - Priority Pollutants	CWA - Hazardous Substances
Pyrethrins 8003-34-7	1 lb	-	-	-

CERCLA

This material, as supplied, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

Chemical Name	Hazardous Substances RQs	CERCLA/SARA RQ	Reportable Quantity (RQ):
Pyrethrins 8003-34-7	1 lb	-	RQ 1 lb final RQ RQ 0.454 kg final RQ

US State Regulations:**California Proposition 65:**

This product does not contain any Proposition 65 chemicals

U.S. EPA Label Information:

EPA Registration Number: 1021-1424

Difference between SDS and EPA (FIFRA) Pesticide label:

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for Safety Data Sheets (SDS), and for workplace labels of non-pesticide chemicals. The pesticide label also includes other important information, including directions for use. The hazard information required on the pesticide label is reproduced below:

Signal word: **CAUTION**

Precautionary Statements:

- Harmful if swallowed.
- Harmful if absorbed through the skin.
- Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

International:

TSCA	Complies
DSL/NDSL	Complies
EINECS/ELINCS	Complies
ENCS	Does not comply
IECSC	Complies
KECL	Does not comply
PICCS	Complies
AICS	Complies

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

EINECS/ELINCS - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

ENCS - Japan Existing and New Chemical Substances

IECSC - China Inventory of Existing Chemical Substances

KECL - Korean Existing and Evaluated Chemical Substances

PICCS - Philippines Inventory of Chemicals and Chemical Substances

AICS - Australian Inventory of Chemical Substances

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION.

Issue Date:
20-Jan-2016

Revision Date:
20-Jan-2016

Revision Note:
- New SDS.
- GHS - Classification.

SDS Prepared By:
e-Mail Address:

Troy Azzivitto, MGK® Chemistry Department.
mgk-sds@mgk.com

Disclaimer:

The data contained herein are based on information currently available to McLaughlin Gormley King Company and, to the best of our knowledge, are accurate and based on sound expert opinion. Our statements herein, however, are not to be taken as a warranty or representation for which McLaughlin Gormley King Company assumes legal responsibility.

End of Safety Data Sheet.

Safety Data Sheet

TERMIDOR 9.1% SC.

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1. Product and Company Identification

Company

BASF CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

24 Hour Emergency Response Information

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Substance number:	000000256709
Molecular formula:	C12 H4 Cl2 F6 N4 O S
Chemical family:	phenyl pyrazole
Synonyms:	fipronil

2. Hazards Identification

Emergency overview

CAUTION:
HARMFUL IF SWALLOWED.
HARMFUL IF ABSORBED THROUGH SKIN.
HARMFUL IF INHALED.
Causes eye irritation.
Do not get in eyes, on skin, or on clothing.
Do not breathe vapours/mists.
Wash thoroughly after handling.

See Product Label for additional precautionary statements.

State of matter: liquid
Colour: beige
Odour: characteristic

Potential health effects

Primary routes of exposure:

Routes of entry for solids and liquids include eye and skin contact, ingestion and inhalation. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquified gases.

Acute toxicity:

Slightly toxic after single ingestion. Slightly toxic after short-term skin contact. Slightly toxic after short-term inhalation.

Irritation / corrosion:

May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

Sensitization:

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Skin sensitizing effects were not observed in animal studies.

Medical conditions aggravated by overexposure:

Individuals with pre-existing diseases of the respiratory system, skin or eyes may have increased susceptibility to excessive exposures.

Signs and symptoms of overexposure:

CNS stimulation, tremors, convulsions

All injection injuries must be treated as potential threats to the future viability of the hand, foot, or limb. Injection wounds containing dirt, leather, product or other infectious detritus should be considered dangerous to the viability of the hand, foot or limb. Surgical exploration and debridement may be required.

Potential environmental effects

Aquatic toxicity:

Very toxic (acute effect) to aquatic organisms.

Terrestrial toxicity:

With high probability not acutely harmful to terrestrial organisms.

3. Composition / Information on Ingredients

<u>CAS Number</u>	<u>Content (W/W)</u>	<u>Chemical name</u>
120068-37-3	9.1 %	fipronil
57-55-6	3.0 %	Propylene glycol
	87.9 %	Proprietary ingredients

4. First-Aid Measures

General advice:

First aid providers should wear personal protective equipment to prevent exposure. Remove contaminated clothing. Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or physician for treatment advice. Have the product container or label with you when calling a poison control center or doctor or going for treatment.

If inhaled:

Remove the affected individual into fresh air and keep the person calm.

If on skin:

Rinse skin immediately with plenty of water for 15 - 20 minutes.

If in eyes:

Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing.

If swallowed:

Never induce vomiting or give anything by mouth if the victim is unconscious or having convulsions. Do not induce vomiting. Have person sip a glass of water if able to swallow.

Note to physician

Antidote:

No known specific antidote.

Treatment:

Treat symptomatically. Anticonvulsant therapy as routinely administered to humans. Based on animal studies diazepam and phenobarbital prevented convulsions. Due to the slow elimination of the active compound and its metabolites, the treatment must be continued for several days, gradually decreasing the dose of anticonvulsant based on the clinical response.

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5. Fire-Fighting Measures

Flash point: > 206.96 °F

Autoignition:

Lower explosion limit:

Upper explosion limit:

Self-ignition temperature:

Information applies to the solvent. not applicable

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

As a result of our experience with this product and our knowledge of its composition we do not expect any hazard as long as the product is used appropriately and in accordance with the intended use.

not self-igniting

Suitable extinguishing media:

foam, dry powder, carbon dioxide, water spray

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, hydrogen fluoride, Hydrogen chloride, nitrogen oxides, sulfur oxides, acid halides

If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released if the product is involved in a fire.

Protective equipment for fire-fighting:

Wear self-contained breathing apparatus and chemical-protective clothing.

Further information:

In case of fire and/or explosion do not breathe fumes. Keep containers cool by spraying with water if exposed to fire. Collect contaminated extinguishing water separately, do not allow to reach sewage or effluent systems.

Dispose of fire debris and contaminated extinguishing water in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Take appropriate protective measures. Clear area. Shut off source of leak only under safe conditions. Extinguish sources of ignition nearby and downwind. Ensure adequate ventilation. Wear suitable personal protective clothing and equipment.

Environmental precautions:

Do not discharge into the subsoil/soil. Do not discharge into drains/surface waters/groundwater. Contain contaminated water/firefighting water.

Cleanup:

Dike spillage. Pick up with suitable absorbent material. Place into suitable containers for reuse or disposal in a licensed facility. Spilled substance/product should be recovered and applied according to label rates whenever possible. If application of spilled substance/product is not possible, then spills should be contained, solidified, and placed in suitable containers for disposal. After decontamination, spill area can be washed with water. Collect wash water for approved disposal.

7. Handling and Storage

Handling

General advice:

RECOMMENDATIONS ARE FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS. PESTICIDE APPLICATORS & WORKERS must refer to the Product Label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection

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Standard 40 CFR part 170. Ensure adequate ventilation. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect contents from the effects of light. Protect against heat. Protect from air. Handle and open container with care. Do not open until ready to use. Once container is opened, content should be used as soon as possible. Avoid aerosol formation. Avoid dust formation. Provide means for controlling leaks and spills. Do not return residues to the storage containers. Follow label warnings even after container is emptied. The substance/product may be handled only by appropriately trained personnel. Avoid all direct contact with the substance/product. Avoid contact with the skin, eyes and clothing. Avoid inhalation of dusts/mists/vapours. Wear suitable personal protective clothing and equipment.

Protection against fire and explosion:

The relevant fire protection measures should be noted. Fire extinguishers should be kept handy. Avoid all sources of ignition: heat, sparks, open flame. Sources of ignition should be kept well clear. Avoid extreme heat. Keep away from oxidizable substances. Electrical equipment should conform to national electric code. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition.

Storage

General advice:

Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect containers from physical damage. Protect against contamination. The authority permits and storage regulations must be observed.

Storage incompatibility:

General advice: Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Temperature tolerance

Protect from temperatures below: 0 °C

Changes in the properties of the product may occur if substance/product is stored below indicated temperature for extended periods of time.

Protect from temperatures above: 40 °C

Changes in the properties of the product may occur if substance/product is stored above indicated temperature for extended periods of time.

8. Exposure Controls and Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed the level for which an air purifying respirator is effective, or where the levels are unknown or Immediately Dangerous to Life or Health (IDLH), use NIOSH-certified full facepiece pressure demand self-contained breathing apparatus (SCBA) or a full facepiece pressure demand supplied-air respirator (SAR) with escape provisions.

Hand protection:

Chemical resistant protective gloves, Protective glove selection must be based on the user's assessment of the workplace hazards.

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Eye protection:

Safety glasses with side-shields. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

Wear long sleeved work shirt and long work pants in addition to other stated personal protective equipment. Work place should be equipped with a shower and an eye wash. Handle in accordance with good industrial hygiene and safety practice. Personal protective equipment should be decontaminated prior to reuse. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks). Take off immediately all contaminated clothing. Store work clothing separately. Hands and/or face should be washed before breaks and at the end of the shift. No eating, drinking, smoking or tobacco use at the place of work. Keep away from food, drink and animal feeding stuffs.

9. Physical and Chemical Properties

Form:	suspension	
Odour:	characteristic	
Colour:	beige	
pH value:	7.2	(10 g/l)
onset of boiling:	approx. 100 °C	(1,013 hPa) Information applies to the solvent.
Vapour pressure:	approx. 23.3 hPa	(20 °C) Information applies to the solvent.
Density:	1.06 g/cm ³	(20 °C)
Vapour density:		not determined
Partitioning coefficient n-octanol/water (log Pow):		not applicable
Viscosity, dynamic:	approx. 1,600 - 1,850 mPa.s	(21.6 °C)
Solubility in water:		dispersible
Molar mass:	437.15 g/mol	

10. Stability and Reactivity

Conditions to avoid:

Avoid all sources of ignition: heat, sparks, open flame. Avoid prolonged storage. Avoid electro-static discharge. Avoid contamination. Avoid prolonged exposure to extreme heat. Avoid extreme temperatures.

Substances to avoid:

strong oxidizing agents

Hazardous reactions:

The product is chemically stable.

Hazardous polymerization will not occur. No hazardous reactions if stored and handled as prescribed/indicated.

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated., Prolonged thermal loading can result in products of degradation being given off.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen oxide, Hydrogen chloride, hydrogen fluoride, Sulphur dioxide
Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. If product is heated above decomposition temperature hazardous fumes may be released.

Corrosion to metals:

Corrosive effects to metal are not anticipated.

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Oxidizing properties:
Not an oxidizer.
not fire-propagating

11. Toxicological information

Acute toxicity

Oral:

Type of value: LD50
Species: rat
Value: 1,999 mg/kg

Inhalation:

Type of value: LC50
Species: rat
Value: > 1.7 mg/l
Exposure time: 4 h

Type of value: LC50
Species: rat
Value: 6.8 mg/l (calculated)
Exposure time: 1 h

Dermal:

Type of value: LD50
Species: rat
Value: > 2,000 mg/kg

Irritation / corrosion

Skin:

Species: rabbit
Result: Slightly irritating.

Eye:

Species: rabbit
Result: Slightly irritating.

Sensitization:

Species: guinea pig
Skin sensitizing effects were not observed in animal studies.

Genetic toxicity

Information on: fipronil

Results from a number of mutagenicity studies with microorganisms, mammalian cell culture and mammals are available. Taking into account all of the information, there is no indication that the substance is mutagenic.

Carcinogenicity

Information on: fipronil

In long-term studies in rats the substance induced thyroid tumors. In long-term studies in rodents exposed to high doses, a tumorigenic effect was found; however, these results are thought to be due to a rodent-specific liver effect that is not relevant to humans.

Reproductive toxicity

Information on: fipronil

Safety Data Sheet

TERMIDOR 9.1% SC.

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Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals.

12. Ecological Information

Fish

Acute:
Brachydanio rerio/LC50 (96 h): 3.89 mg/l

Aquatic invertebrates

Acute:
Daphnia pulex/EC50 (48 h): 0.2 mg/l

Aquatic plants

Information on: fipronil
Toxicity to aquatic plants:
green algae/EC50 (96 h): 0.068 mg/l
Common duckweed/EC50 (336 h): > 0.160 mg/l
green algae/EC50 (120 h): > 0.140 mg/l
Algae/EC50 (120 h): > 0.170 mg/l
Algae/EC50 (120 h): > 0.120 mg/l

Non-Mammals

Information on: fipronil
Other terrestrial non-mammals:
Honey bee/LD50 (48 d): 0,00593 ug/bee (contact)
Honey bee/LD50 (48 d): 0,00417 ug/bee (oral)

Degradability / Persistence Biological / Abiological Degradation

Evaluation: Not readily biodegradable (by OECD criteria).

Other adverse effects:

The ecological data given are those of the active ingredient. Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:

Contaminated packaging should be emptied as far as possible and disposed of in the same manner as the substance/product.
Rinse thoroughly at least three times (triple rinse) in accordance with EPA recommendations. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

RCRA:

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This product is not regulated by RCRA.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

Sea transport

IMDG

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains FIPRONIL 9%)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3082
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.
(contains FIPRONIL 9%)

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

OSHA hazard category: Acute target organ effects reported; Chronic target organ effects reported

EPCRA 311/312 (Hazard categories): Acute; Chronic

State regulations

State RTK

PA

CAS Number

57-55-6

Chemical name

Propylene glycol

16. Other Information

Refer to product label for EPA registration number.

Safety Data Sheet

TERMIDOR 9.1% SC.

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Recommended use: insecticide

NFPA Hazard codes:

Health : 2 Fire: 1 Reactivity: 1 Special:

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2013/10/31

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END OF DATA SHEET



**KILLS
RATS & MICE**

Terad³

Ag³ BLOX

This product may only be used inside and within 100 feet of agricultural buildings and man-made agricultural structures.

OMRI[®]
Listed



Photo not representative of a label placement.

- **All-Weather Formula**
- **Mold & Moisture Resistant**
- **Can Be Used Indoors or Out**
- **Kills Anticoagulant-Resistant Norway Rats**

FOR ORGANIC PRODUCTION

ACTIVE INGREDIENT:
 Cholecalciferol (CAS #67-97-0): .. 0.075%
 OTHER INGREDIENTS: 99.925%
 TOTAL 100.000%

**NET WEIGHT:
18 lbs (8.2 kg)**

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See back panels for First Aid and additional precautionary statements.

FIRST AID	
Have label with you when obtaining treatment advice	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center, doctor, or 1-877-854-2494 immediately for treatment advice. • Have person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor.

NOTE TO PHYSICIAN
If serum calcium levels are elevated, treatment with Calcitonin is effective in reducing calcium to normal levels. Continue monitoring serum calcium and treat as necessary for hypercalcemia (Reference, AMA Drug Evaluations, Third Edition (1977), Chapter 16, pp. 248-251).

TREATMENT FOR PET POISONING
If animal eats bait, call veterinarian or 1-877-854-2494 at once.

NOTE TO VETERINARIAN
Calcium Mobilizer Cholecalciferol: For animals ingesting bait, induce vomiting by using hydrogen peroxide or administration of activated charcoal with a cathartic. If clinical signs develop, treatment consisting of saline diuresis combined with the use of furosemide, corticosteroids and phosphate binders are recommended. Calcitonin or pamidronate may be needed for animals that remain hypercalcemic despite symptomatic treatment.

DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
READ THIS LABEL: Read this entire label and follow all use directions and use precautions. Use only for the sites, pests, and application methods described on this label.

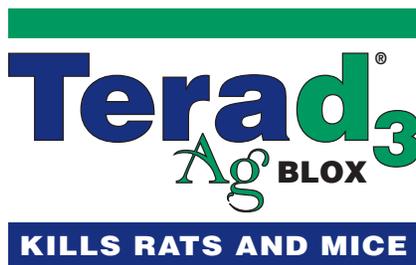
- IMPORTANT:** Do not expose children, pets, or nontarget animals to rodenticides. To help to prevent exposure:
1. Store unused product out of reach of children and pets.
 2. Apply bait in locations out of reach of children, pets, domestic animals and nontarget wildlife, or in tamper-resistant bait stations. These stations must be resistant to destruction by dogs and by children under six years of age, and must be used in a manner that prevents such children from reaching into bait compartments and obtaining bait. If bait can be shaken from bait stations when they are lifted, units must be secured or otherwise immobilized. Stronger bait stations are needed in areas open to hoofed livestock, raccoons, bears, or other potentially destructive animals, or in areas prone to vandalism.
 3. Dispose of product container and unused, spoiled, or unconsumed bait as specified on this label.

Note: Bait stations are mandatory for outdoor, above-ground use. Tamper-resistant bait stations must be used if children, pets, non-target mammals, or birds may access the bait.

USE RESTRICTIONS: This product can only be used to control Norway rats, roof rats and house mice in and within 100 feet of agricultural buildings and man-made agricultural structures constructed in a manner so as to be vulnerable to commensal rodent invasions and/or to harboring or attracting rodent infestations. Fence and perimeter baiting, beyond 100 feet from an agricultural structure as defined above, is prohibited. This product must not be applied directly to food or feed crops.

Burrow baiting with Terad₃ Ag Blox is prohibited.

Do not place near or inside ventilation duct openings. Do not contaminate water, food, feedstuffs, food or feed handling equipment, or milk or meat handling equipment or surfaces that come into direct contact with food. When used in USDA inspected facilities, this product must be applied in tamper-resistant bait stations. Do not broadcast bait.



KILLS NORWAY RATS, ROOF RATS AND HOUSE MICE

ACTIVE INGREDIENT:
Cholecalciferol (CAS #67-97-0): 0.075%
OTHER INGREDIENTS: 99.925%
TOTAL 100.000%

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See side panels for First Aid and additional precautionary statements.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container.

[Plastic:] Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration.

WARRANTY: To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning the use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of this material when such use and/or handling is contrary to label instructions.

NET WEIGHT: 18 lbs (8.2 kg)

EPA REG. NO: 12455-116

EPA EST. NO.: 12455-WI-1

Manufactured by:



DIRECTIONS FOR USE (Continued from the other side)

Do not sell this product in individual containers holding less than 4 pounds of bait.

SELECTION OF TREATMENT AREAS: Determine areas where rats or mice will most likely find and consume the bait. Generally, these areas are along walls, by gnawed openings, in corners and concealed places, between floors and walls, or in locations where signs of rats or house mice have been seen. Protect bait from rain and snow. Remove as much alternative food as possible.

APPLICATION DIRECTIONS:

Norway Rats and Roof Rats: Use 2 to 8 bait blocks per placement. Space placements at intervals of 15 to 30 feet in infested areas. Maintain an uninterrupted supply of fresh bait for 10 days or until there no longer are signs of recent feeding on bait by rats.

House Mice: Use 1 bait block per placement. Space placements at intervals of 8 to 12 feet in infested areas. Two bait blocks per placement may be used at points of very high mouse activity. Maintain an uninterrupted supply of fresh bait for 15 days or until there no longer are signs of recent feeding on bait by house mice.

FOLLOW-UP: Replace contaminated or spoiled bait immediately. Wearing gloves, collect and dispose of all dead, exposed animals and leftover bait. To prevent reinfestation, limit sources of rodent food, water, and harborage as much as possible. If reinfestation does occur, repeat treatment. Where a continuous source of infestation is present, establish permanent bait stations and replenish as needed.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

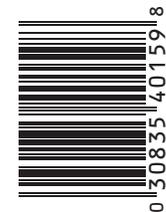
CAUTION: Harmful if swallowed. Keep away from children, domestic animals and pets. All handlers (including applicators) must wear shoes, socks, and gloves. Any person who retrieves carcasses or unused bait following application of this product must wear gloves.

User Safety Requirements

Follow manufacturer's instruction for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using the toilet and change into clean clothing.

ENVIRONMENTAL HAZARDS

This product is toxic to fish, birds and other wildlife. Dogs and other predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten the bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark.



043012/04-12

Product Code: TD3051



TERAD3[®] AG BLOX

SAFETY DATA SHEET

ACCORDING TO REGULATION: OSHA
Hazard Communication Standard 29 CFR 1910.1200

DATE OF ISSUE:
January 2016

PREPARED BY:
CAR

SECTION 1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier: TERAD3[®] AG BLOX

EPA Registration Number: 12455-116

Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Acute Rodenticide - Ready to use

Uses advised against: Use only for the purpose described above

MANUFACTURER/SUPPLIER:

Bell Laboratories, Inc.

3699 Kinsman Blvd.

Madison, WI 53704, USA

Email: sds@belllabs.com

Phone: 608-241-0202

Medical or Vet Emergency: 877-854-2494 or 952-852-4636

Spill or Transportation Emergency: 800-424-9300 (CHEMTREC)

SECTION 2. HAZARDS IDENTIFICATION

Classification according to Regulation OSHA 1910.1200(d): Not classified

Signal Word: None

See Section 15 for information on FIFRA applicable safety, health, and environmental classifications.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	% By weight
Cholecalciferol [9,10-secocholesta- 5,7,10(19)-trien-3-ol]	67-97-0	0.075%
Inert and Non-Hazardous Ingredients (Unlisted components are non-hazardous)	Proprietary	99.925%

SECTION 4. FIRST AID MEASURES

Description of first aid measures

Ingestion: Call physician or emergency number immediately. Have person sip a glass of water if able to swallow. Do not induce vomiting unless instructed by physician.

Inhalation: Not applicable.

Eye contact: Hold eye open and rinse slowly with water for 15 – 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. If irritation develops, obtain medical assistance.

Skin contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 minutes. If irritation develops, obtain medical assistance.

Most important symptoms and effects, both acute and delayed

Ingestion of excessive quantities may cause hypercalcemia, anorexia, nausea, vomiting, loss of appetite, extreme thirst, lethargy, diarrhea, profuse sweating, headache.

Advice to physician: There is no specific antidote. If serum calcium levels are elevated, treatment with calcitonin is effective in reducing calcium to normal levels. Continue monitoring serum calcium and treat as necessary for hypercalcemia. (Reference: AMA Drug Evaluations, Third Edition (1977) Chapter 16, pp. 248-251)

Advice to Veterinarian: For animals ingesting bait and/or showing poisoning signs, induce vomiting by using hydrogen peroxide or administration of activated charcoal with a cathartic. If clinical signs develop, treatment consisting of saline diuresis combined with the use of furosemide, corticosteroids, and phosphate binders are recommended. Calcitonin or pamidronate may be needed for animals that remain hypercalcemic despite symptomatic treatment.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing media

Suitable Extinguishing Media: water, foam or inert gas.

Unsuitable Extinguishing Media: None known.

Special hazards arising from the mixture: High temperature decomposition or burning in air can result in the formation of toxic gases, which may include oxides of carbon.

Advice for firefighters: Wear protective clothing and self-contained breathing apparatus.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures: Gloves should be worn when handling the bait. Collect spillage without creating dust.

Environmental precautions: Do not allow bait to enter drains or water courses. Where there is contamination of streams, rivers or lakes contact the appropriate environment agency.

Methods and materials for containment and cleaning up

For Containment: Sweep up spilled material immediately. Place in properly labeled container for disposal or re-use.

For Cleaning Up: Wash contaminated surfaces with detergent. Dispose of all wastes in accordance with all local, regional and national regulations.

Reference to other sections: Refer to Sections 7, 8 & 13 for further details of personal precautions, personal protective equipment and disposal considerations.

SECTION 7. HANDLING AND STORAGE

Precautions for safe handling: Do not handle the product near food, animal foodstuffs or drinking water. Keep out of reach of children. Do not use near heat sources, open flame, or hot surfaces. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Conditions for safe storage, including any incompatibilities: Store only in original container in a cool, dry place, inaccessible to pets and wildlife. Do not contaminate water, food or feed by storage or disposal. Keep containers closed and away from other chemicals.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Established Limits

Component	OSHA	ACGIH	Other Limits
Cholecalciferol	Not Established	Not Established	Not Established

Appropriate Engineering Controls: Not required

Occupational exposure limits: Not established

Personal Protective Equipment:

Respiratory protection: Not required

Eye protection: Not required

Skin protection: Shoes plus socks, and waterproof gloves.

Hygiene recommendations: Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet, and change into clean clothing.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance/Color:	Blue-grey-beige-brown wax block
Odor:	Sweet grain-like
Odor Threshold:	Not applicable, odor not associated with a hazardous material.
pH:	Not applicable, is not dispersible with water.
Melting point:	Not applicable to rodenticide bait
Boiling point:	Not applicable to rodenticide bait
Flash point:	Not applicable, does not contain components classified as flammable.
Evaporation rate:	Not applicable, s a solid.
Flammability:	Not applicable, is a solid.
Upper/lower flammability or explosive limits:	Not applicable, does not contain components classified as flammable or explosive.
Vapor Pressure:	Not applicable to rodenticide bait
Vapor Density:	Not applicable, is a solid
Relative Density:	1.13 g/mL @ 20°C
Solubility (water):	Not water soluble
Solubility (solvents):	Not applicable to rodenticide bait
Partition coefficient: n-octanol/water:	Not applicable to rodenticide bait
Auto-ignition temperature:	Not applicable, does not contain components classified as flammable.
Decomposition temperature:	Not applicable to rodenticide bait
Viscosity:	Not applicable, is not a liquid.

SECTION 10. STABILITY AND REACTIVITY

Reactivity: Stable when stored in original container in a cool, dry location.
Chemical stability: Stable when stored in original container in a cool, dry location.
Possibility of hazardous reactions: Refer to Hazardous decomposition products
Conditions to avoid: Avoid extreme temperatures (below 0°C or above 40°C).
Incompatible materials: Avoid strongly alkaline materials.
Hazardous decomposition products: High temperature decomposition or burning in air can result in the formation of toxic gases, which may include oxides of carbon.

SECTION 11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

LD50, oral (ingestion): >5001 mg/kg (rats) (Cholecalciferol Rat LD50 oral: 43.6 mg/kg bw).

LD50, dermal (skin contact): > 5001 mg/kg (rats) (Cholecalciferol not determined).

LC50, inhalation: Product is a wax block and therefore exposure by inhalation is not relevant.

Skin corrosion/irritation : Not irritating to skin.

Serious eye damage/Irritation: Not irritating to eyes.

Respiratory or skin sensitization: Dermal sensitization: Not a Sensitizer (Guinea pig maximization test).

Germ cell mutagenicity: Contains no components known to have a mutagenetic effect.

Carcinogenicity: Contains no components known to have a carcinogenetic effect.

Components	NTP	IARC	OSHA
Cholecalciferol	Not listed	Not listed	Not listed

Reproductive Toxicity: No data

Aspiration Hazard: Not applicable. Product is a wax block.

Target Organ Effects: Damage caused by an accumulation of calcium.

SECTION 12. ECOLOGICAL INFORMATION

Ecotoxicity Effects: This product is toxic to fish, birds and other wildlife. Dogs and predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten this bait. Do not apply this product directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas. Do not contaminate water when disposing of equipment wash water or rinsate.

Persistence and degradability: Product is inherently biodegradable. Cholecalciferol slowly decomposes in water.

Bioaccumulative potential: Not determined. Cholecalciferol water solubility is extremely low (< 0.1mg/l).

Mobility in Soil: Not determined. Mobility of cholecalciferol in soil is considered to be limited.

Other adverse effects: None.

SECTION 13. DISPOSAL CONSIDERATIONS

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store only in original container in a cool, dry place inaccessible to children and pets. Keep containers closed and away from other chemicals.

Pesticide Disposal: Wastes resulting from the use of this product may be placed in trash or delivered to an approved waste disposal facility.

Container Handling: Non-refillable container. Do not reuse or refill this container. [Plastic:] Offer for recycling or reconditioning; or puncture and dispose of in a sanitary landfill; or by incineration. In most states, burning is not allowed. [Paper:] Dispose of empty container by placing in trash, at an approved waste disposal facility or by incineration. In most states, burning is not allowed.

SECTION 14. TRANSPORT INFORMATION

UN number: Not regulated

UN proper shipping name: Not regulated

Transport hazard class(es): Not regulated

Packing group : Not regulated

Environmental Hazards

DOT Road/Rail: Not considered hazardous for transportation via road/rail.

DOT Maritime: Not considered hazardous for transportation by vessel.

DOT Air: Not considered hazardous for transportation by air.

Freight Classification: LTL Class 60

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code: Not applicable

Special precautions for user: None

SECTION 15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture:

FIFRA: This pesticide product is regulated by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The safety, health, environmental, and hazard information required on the pesticide label is listed below and reflected throughout this SDS. The pesticide label also includes other important information, including directions for use.

Signal Word: CAUTION

Precautionary Statements: Contains the calcium mobilizer, cholecalciferol. Harmful if swallowed or absorbed through the skin. Keep away from children, domestic animals and pets. Do not get in eyes, on skin or on clothing.

Potential Health Effects:

Eye Contact: May cause irritation

Skin Contact: Non-irritating to the skin

Ingestion: Harmful if swallowed

TSCA: All components are listed on the TSCA Inventory or are not subject to TSCA requirements

CERCLA/SARA 313: Not listed

CERCLA/SARA 302: Not listed

SECTION 16. OTHER INFORMATION

For additional information, please contact the manufacturer noted in Section 1.

NFPA	Health: 1 (caution)	Flammability: 1 (slight)	Reactivity: 0 (stable)	Specific Hazard: None
HMIS	Health: 2 (moderate)	Flammability: 1 (slight)	Reactivity: 0 (minimal)	Protective Equipment: B

Disclaimer: The information provided in this Safety Data Sheet has been obtained from sources believed to be reliable. Bell Laboratories, Inc. provides no warranties; either expressed or implied, and assumes no responsibility for the accuracy or completeness of the data contained herein. This information is offered for your consideration and investigation. The user is responsible to ensure that they have all current data, including the approved product label, relevant to their particular use.

PRECAUTIONARY STATEMENTS

Hazard to Humans and Domestic Animals

CAUTION: May be harmful if swallowed or absorbed through the skin because this product reduces the clotting ability of blood and causes bleeding. Keep away from children, domestic animals and pets. Do not get in eyes, on skin, or on clothing. Any person who retrieves carcasses or unused bait following application of this product must wear gloves. All handlers (including applicators), must wear long sleeved shirt and long pants, shoes plus socks, and gloves.

USER SAFETY REQUIREMENTS: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet and change into clean clothing.

FIRST AID: Have this label with you when obtaining treatment advice.

If swallowed: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

If on skin or clothing: Take off contaminated clothing. Rinse skin with plenty of cool water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

NOTE TO PHYSICIAN: Contains chlorophacinone, an anticoagulant. For humans that have ingested this product, or have obvious poisoning symptoms (bleeding) or prolonged prothrombin times, give Vitamin K₁ by intramuscular or oral administration. Check prothrombin time every 3 days until values return to normal.

TREATMENT FOR PET POISONING: If animal eats bait, call veterinarian at once.

NOTE TO VETERINARIAN: Anticoagulant Chlorophacinone: For animals ingesting bait and/or showing poisoning signs (bleeding or elevated prothrombin times), give Vitamin K₁.

ENVIRONMENTAL HAZARDS: This product is toxic to fish and wildlife. Dogs and other predatory and scavenging mammals and birds might be poisoned if they feed upon animals that have eaten the bait. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of wastes. Runoff also may be hazardous to aquatic organisms in water adjacent to treated areas.

ENDANGERED SPECIES CONSIDERATIONS: Do not use this product within prairie dog towns in the range of the black-footed ferret without first contacting endangered species specialists, U.S. Fish and Wildlife Service, Denver Regional Office. This pesticide should not be used within one mile of active dens of the San Joaquin Kit Fox in the following California counties: Kern, Kings, Fresno, San Luis Obispo, Merced, Monterey, Santa Barbara, Ventura, Tulare, and San Benito. Prior to use, contact endangered species specialists at the California Department of Fish and Game or the U.S. Fish and Wildlife Service, Portland Regional Office, for recommendations.



rozol[®]
POCKET GOPHER BAIT

POCKET GOPHER BAIT

FOR THE CONTROL
OF POCKET GOPHERS ONLY

This product may only be used to control pocket gophers in manual,
below-ground applications.

Active Ingredient: chlorophacinone 0.005%
Inert Ingredients 99.995%
Total 100.000%

KEEP OUT OF REACH OF CHILDREN

CAUTION: See side panel for additional precautionary statements.

LIPHATECH[®]

Liphatech, Inc.
3600 W. Elm Street
Milwaukee, WI 53209
(800) 351-1476

This product *not* registered for sale or use in
Alaska, Hawaii, North Carolina or Pennsylvania.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. **READ THIS LABEL** and follow all use directions and use precautions.

USE RESTRICTIONS: Use only to control pocket gophers (*Thomomys* spp. and *Geomys* spp.) on lawns, golf courses, alfalfa fields, rangeland, orchards and groves, and non-crop areas. Bait must be applied directly into pocket gophers' burrow systems. Only apply bait underground. Apply only for the sites, pests and application methods specified on this label.

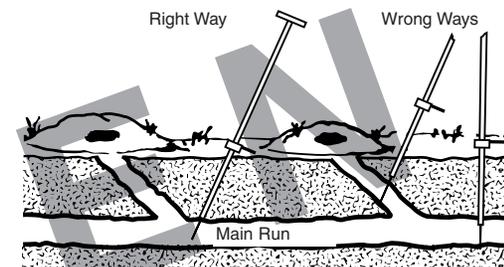
Application Directions: Burrowing pocket gophers throw out low, fan-shaped mounds on either side of their underground tunnel. These lateral tunnels coming to the surface are on the flat side of the fan and these holes plugged with loose soil.

Treatment: Can be made in one or both of the following ways.

1. With a long-handled tablespoon, carefully remove the plug on the flat side of the fan. Carefully insert 1/2 cup of bait as far down into the hole as possible. Re-close the opening, using care not to cover the bait with soil.

2. Using a metal rod, probe 6-12 inches deep to locate the main tunnel. Consult diagram below for location to probe. Drop 1/2 cup of bait into the tunnel and cover the hole so light will not enter the tunnel system.

Consult Federal and State rodent control bulletins for a full discussion of pocket gopher burrowing habits. Make 2-3 treatments per burrow system. Wearing gloves, immediately bury dead animals and spilled bait found on soil surface. Maintain a constant supply of bait in the burrow system for as long as there is gopher activity. Do not apply bait on surface of soil.



The right and the wrong ways to use a probe for poisoning gophers are shown above. Be sure that bait is in the main runway - not in the laterals or imbedded in the bottom of the runway. (13909)

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Store in original container in a cool, dry place inaccessible to children and pets.

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Container Handling: This is a nonrefillable container. Do not reuse or refill this container. Offer for recycling if available or dispose of empty container in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY: To the extent consistent with applicable law, seller makes no warranty, expressed or implied, concerning use of this product other than indicated on the label. Buyer assumes all risk of use and/or handling of product when such use and/or handling is contrary to label instructions.

EPA Reg. No. 7173-184

EPA Est. No. 7173-WI-1

SAFETY DATA SHEET

Section 1: Identification

Product identifier: Rozol® Pocket Gopher Bait
Other identifier(s): EPA Registration Number 7173-184
Uses or restrictions: Rodenticide with chlorophacinone

Manufacturer: Liphatech, Inc.
3600 W. Elm Street, Milwaukee, WI 53209
Emergency phone: 800-351-1476 Monday - Friday 8:00 am - 4:30 pm
(US Central time zone)
After hours: Call CHEMTREC at 1-800-424-9300

Section 2: Hazard Identification

Hazard class: Specific Target Organ Toxicity (Single exposure), Category 2; Specific Target Organ Toxicity (Repeated exposure), Category 2
Warning: May cause damage to blood and reduce the clotting ability of blood if swallowed, inhaled or absorbed through skin. Do not breathe dust. Do not eat, drink or smoke when using this product. Wash hands thoroughly after handling. If exposed or if you feel unwell, call a poison control center or doctor. Dispose of container and contents according to instructions on product label. Store locked up.



Section 3: Composition / Information on Ingredients

Hazardous ingredients:
Chlorophacinone (CAS registry no. 3691-35-8)..... 0.005%

Section 4: First Aid Measures

Emergency overview: This material may reduce the clotting ability of the blood and cause bleeding. Symptoms of toxicity include lethargy, loss of appetite, reduced clotting ability of blood, and bleeding. Have the product label with you when obtaining treatment advice.

If swallowed: Call a poison control center or doctor. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.

If inhaled: Move person to fresh air. If person is not breathing, call an ambulance, then give artificial respiration and call poison control or doctor.

If in eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor.

If on skin or clothing: Take off contaminated clothing. Rinse skin with plenty of cool water for 15-20 minutes. Call a poison control center or doctor.

Note to Physician or Veterinarian: Contains anticoagulant ingredient. For humans or animals ingesting bait and/or showing obvious poisoning symptoms (bleeding or prolonged prothrombin times), give Vitamin K₁ intramuscularly or orally. In severe cases, blood transfusions may be needed.

Section 5: Fire-fighting Measures

Extinguishing media: Use media suitable for the surrounding fire

Specific fire or explosion hazards: None known

Special cautions for firefighters: Wear self-contained breathing apparatus (full facepiece) & full protective clothing. Contain runoff to prevent pollution.

Section 6: Accidental Release Measures

Precautions, PPE and Procedures: Wearing PPE as specified in Section 8, isolate and contain spill. Limit access to spill area to necessary personnel. Do not allow spilled material to enter sewers, streams or other waters.

Methods and materials: Scoop up spilled material and place in a closed, labeled container for use according to label instructions or disposal.

Section 7: Handling and Storage

Precautions for safe handling: Read the entire product label before using this rodenticide. **Conditions for safe storage:** Store in original container in a cool, dry area out of reach of children, pets and domestic animals. Do not contaminate water, food or feed. Keep container tightly closed. Do not remove or destroy the product label.

Section 8: Exposure Controls / Personal Protection

Established exposure limits: Not applicable

Appropriate engineering controls: Special ventilation is not required for the normal handling and use of this product when following label instructions.

Individual protection measures: Wear long-sleeved shirt, long pants, shoes, socks and waterproof gloves when handling this product. Follow manufacturer's instructions for cleaning/maintaining PPE, or else wash with detergent and hot water. Keep and wash PPE separately from other laundry. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. Wash hands thoroughly after applying bait and before eating, drinking, chewing gum, using tobacco or using the toilet, and change into clean clothing.

Section 9: Physical and Chemical Properties

Appearance: Solid particles, green color, raw grain odor. Odor threshold not determined.

Water solubility: Negligible

pH: Not applicable

Relative density: 1.25 g/cc

Viscosity: Not applicable

% Volatile (volume): Not applicable

Evaporation rate: Not applicable

Vapor density: Not applicable

Vapor pressure: Not applicable

Boiling point: Not determined

Freezing point: Not applicable

Flash point (ASTM D92): >125 °C

Autoignition temp.: Not determined

Flammability: Not a flammable solid

Decomposition temp.: Not determined

Explosive limits - Lower limit: Not applicable; Upper limit: Not applicable

Partition coefficient (n-octanol/water): Not applicable

Section 10: Stability and Reactivity

Reactivity: Not reactive, not sensitive to shock or static discharge

Chemical stability: Stable

Hazardous reactions: None

Incompatible materials: None

Conditions to avoid: None

Hazardous decomposition products: Oxides of carbon

Section 11: Toxicological Information

Likely routes of exposure: Ingestion, skin absorption.

Symptoms of toxicity: Lethargy, loss of appetite, reduced clotting ability of blood, and bleeding.

Eye effects/eye irritation: Mild, transient irritant

Acute oral effects: LD₅₀ (oral-rat): >5000 mg/kg

Acute inhalation effects: LC₅₀ (rat, 4 hour): 186 mg/L (extrapolated)

Acute dermal effects: LD₅₀ (dermal-rabbit): >2000 mg/kg

Skin irritation: Non-irritating

Skin sensitization: Not a skin sensitizer

Carcinogenicity: No ingredient listed by NTP, IARC or OSHA

Section 12: Ecological Information

This product is extremely toxic to birds and mammals. Do not apply this product directly to water, where surface water is present or to intertidal areas below the mean high water mark. Carefully follow label cautions and directions to reduce hazards to children, pets and non-target wildlife.

Section 13: Disposal Considerations

Disposal: Wastes resulting from the use of this product according to the label instructions must be disposed of as specified on the product label.

RCRA waste status: This product is not regulated as a hazardous waste under Federal law. State and local regulation may affect the disposal of this product. Consult your state or local environmental agency for disposal of waste generated other than by use according to label instructions.

Section 14: Transport Information

Transportation data (49 CFR): This product is not regulated as a hazardous material for all modes of transportation within the U.S.

Hazard Class, Packing Group and UN ID No.: Not applicable

Section 15: Regulatory Information

TSCA: All components of this product are listed on the TSCA inventory.

SARA section 313: Contains no reportable components.

CA Proposition 65: Contains no substances subject to Prop 65 requirements.

FIFRA: This product is registered as a pesticide with the U.S. Environmental Protection Agency. The label requirements under Federal pesticide law differ from the classification criteria and hazard information required by OSHA on this Safety Data Sheet. Read and follow all cautions, directions and use restrictions on the product label on the container.

Section 16: Other Information

Prepared by: T. Schmit

Date: 2 February 2015

This Safety Data Sheet is believed to be accurate at time of publication. No warranty, expressed or implied, is made with regard to this information. This information may not be adequate for every application, and the user must determine the suitability of this information due to the manner or conditions of use or storage, or local regulation.

RESTRICTED USE PESTICIDE

DUE TO ACUTE ORAL AND ACUTE DERMAL TOXICITY AND DUE TO TOXICITY TO BIRDS AND MAMMALS

For retail sale to and use by only Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's Certification.

AVITROL Whole Corn

Active Ingredient: 4-Aminopyridine.....	0.5%
Other Ingredients:.....	99.5%
Total:.....	100.0%

Avitrol Whole Corn is a poison with flock alarming properties used for the control of Feral Pigeons (*Columba livia*) in, on or in the area of structures, feeding, nesting, loafing and roosting sites, in such a way that a part of a flock may react and frighten the rest away. Birds that react and alarm a flock usually die.

IN NEW YORK STATE: Do not apply in cities with a population of one (1) million or more.

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

KEEP OUT OF REACH OF CHILDREN CAUTION

Manufactured by
Avitrol Corporation
7644 East 46th St
Tulsa, OK 74145-6370
(918) 622-7763 * (800) 633-5069

EPA Reg. No. 11649-7
EPA Est. 11649-OK-1

SPECIMEN LABEL

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Harmful if swallowed. May cause irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Most clothing, including cotton is resistant to this product.

All mixers, loaders, applicators, persons picking up the dead birds and unused bait, and other handlers must wear the following PPE: Long-sleeved shirt and long pants, shoes plus socks, and chemical-resistant gloves (such as those made out of any waterproof material, Selection category A). Applicators shall use a scoop when mixing, applying, and broadcasting this product.

Note: Application continues until the dead birds and unused bait are retrieved – all participants in the application are pesticide handlers.

User Safety Requirements: After use, protective clothing should be washed in detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Users should wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

Users should remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

Users should remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present, or to inter-tidal areas below the mean high water mark. This pesticide is extremely toxic to mammals and birds. This product is toxic to vertebrates. Wildlife and pets feeding on treated bait may be killed. Do not contaminate water by cleaning equipment or disposal of waste.

DIRECTIONS FOR USE RESTRICTED USE PESTICIDE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

ENTRY RESTRICTIONS

Keep persons (other than authorized handlers) as well as pets and livestock, away from the treated bait and dead or dying birds at all times. Only protected handlers may be in the area during bait application until all dead birds and unused bait is retrieved.

USE RESTRICTIONS

- Avitrol Whole Corn must not be exposed in any manner that may endanger desirable and protected bird species. If there is a question of such hazard, consult local, state and federal game authorities before undertaking bird management with Avitrol Whole Corn.

- Investigate local laws that may prohibit the use of any toxic chemical in bird control.
- Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.
- Do not feed to livestock or poultry. Do not mix with grain for livestock or poultry feed.
- Do not apply where livestock and/or poultry may be exposed.
- Do not apply to growing food crops.
- DO NOT apply treated bait in areas accessible to children.
- Baits must be prepared and applied as specified on this label.
- Do not apply baits made from this product by air or any mechanical equipment designed to broadcast baits or other pesticides.
- Users of this product must follow all limitations indicated on this label regarding the placement, monitoring, and retrieval of treated baits.
- Before baits made with this product are applied, sites that are to be treated must be observed for evidence of non-target activity and must be pre-baited (see specific instructions for these activities).
- In populated areas, and most areas open to the public, where feasible, baiting must be performed at elevated sites.
- In areas open to the public, where baiting at elevated sites is not feasible, and ground baiting is required, a certified applicator or someone under his/her direct supervision (authorized handler) must ensure children, pets and non-target species do not come in contact with the blend during the entire application period. That authorized handler must not leave the site until all dead/dying birds and unused bait are retrieved from the site. All dead/dying birds must be disposed of by burial or incineration.
- Do not apply treated baits within 25 feet of permanent bodies of water.
- Do not apply baits made from this product in any way that could contaminate materials to be used as human food or animal feed.
- Do not use treated baits as food or feed. Do not store or even temporarily place treated bait in locations accessible to children, pets, or domestic animals.
- Before applying treated baits in any problem area, carefully observe target birds' feeding habits to locate their preferred feeding sites, determine the optimum time of application, and evaluate options to reduce potential hazards of the application to desirable and/or protected animal species.
- Pre-baiting with untreated bait materials is required to promote feeding by target species and to assess potential for exposure of non-target species. Do not apply treated bait if non-target species are observed feeding on the pre-bait.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Storage: Store only in original container in a cool, dry location inaccessible to children and pets. Store apart from food or animal feed and protect against rodent penetration of the carton. Store apart from other pesticides, fertilizers, food, or feed that may cause cross-contamination of odor or insect infestation.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container Handling: Fiber Drums with Liners: Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner in sanitary landfill or by incineration if allowed by State and local authorities. If drum is contaminated and cannot be reused, dispose of in the same manner.

PREBAITING DIRECTIONS

This product must not be applied where non-target birds are feeding. Careful observations of the birds' feeding habits must therefore be made to establish proper feeding locations and to determine that no non-target birds are feeding on the pre-bait. Pre-baiting with untreated grains of the same composition as this product's carrier is required. The exact pre-baiting technique employed will vary depending on the birds' location and the surrounding environment. Study the locale for a period long enough to ascertain the birds' habits in the area. Proper pre-baiting and treatment with diluted Avitrol Whole Corn will minimize the chance of bird mortality while producing the optimum conditions for the desired results. Pigeons will feed from rooftops as well as from the ground. Feed acceptance from trays will normally require more time.

DILUTION DIRECTIONS

Thoroughly mix Avitrol Whole Corn with untreated whole corn, of the same composition, at the dilution ratios indicated below. For the control of Pigeons with Avitrol Whole Corn, a dilution ratio of one (1) part treated to twenty-nine (29) parts untreated can be used in most situations. However, where other bird food is available, this ratio may need to be adjusted to a one (1) part treated to nineteen (19) or fourteen (14) parts untreated, or even lower. Do not use a dilution ratio less than one (1) part treated to five (5) parts untreated.

BAITING DIRECTIONS

To obtain minimal mortality, limit the distribution of Avitrol Whole Corn to scattered spot placements that will provide feeding opportunities only for the necessary number of target birds. After the birds' feeding pattern has been established through pre-baiting, replace untreated bait with diluted treated bait only at sites where the target birds are actively feeding. Do not apply treated bait to inactive feeding sites. Where uneaten bait may be a hazard to other birds or animals, it must be picked up at the end of each day. When this product is used in or around occupied buildings, pick up and dispose of dead birds by burial or incineration. This product must not be applied where non-target bird species are feeding. When baiting with Avitrol Whole Corn, best results are usually obtained by rotating pre-baiting (with untreated bait), with baiting, (with blended bait), until the desired control is obtained. Note that retreatment may also be necessary after rainfall.

Notice: Buyer and/or User assumes all risks of use and/or handling of these materials contrary to label instructions

SAFETY DATA SHEET

AVITROL

Avitrol Double Strength Corn Chops
Avitrol Double Strength Whole Corn

Section 1. Identification

GHS product identifier : Avitrol Double Strength Corn Chops EPA Reg. No. 11649-5
Avitrol Double Strength Whole Corn EPA Reg. No. 11649-8

Product use : Pesticide

Supplier's details : Avitrol Corporation
7644 E 46th St
Tulsa, OK 74145, USA

e-mail address of person responsible for this SDS : www.avitrol.com

Emergency telephone number (with hours of operation) : 800-424-9300 (24 hours /7 days a week)

Section 2. Hazards identification

OSHA/HCS status : This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200).

Classification of the substance or mixture : COMBUSTIBLE DUSTS
ACUTE TOXICITY (oral) - Category 4
Percentage of the mixture consisting of ingredient(s) of unknown toxicity: 99%

GHS label elements

Hazard pictograms



Signal word : Warning

Hazard statements : May form combustible dust concentrations in air.
Harmful if swallowed.

Precautionary statements

Prevention : Do not eat, drink or smoke when using this product.
Wash hands thoroughly after handling.

Response : IF SWALLOWED: Call a POISON CENTER or physician if you feel unwell. Rinse mouth.

Storage : Not applicable.

Disposal : Dispose of contents and container in accordance with all local, regional, national and international regulations.

Supplemental label elements : Keep container tightly closed. Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Prevent dust accumulation.

Hazards not otherwise classified : Fine dust clouds may form explosive mixtures with air. Handling and/or processing of this material may generate a dust which can cause mechanical irritation of the eyes, skin, nose and throat.

Section 3. Composition/information on ingredients

Substance/mixture : Mixture

Other means of identification : Not available.

CAS number/other identifiers

CAS number : Not applicable.

Section 3. Composition/information on ingredients

Product code : Not available.

Ingredient name	%	CAS number
4-Aminopyridine	1.0	504-24-5
Grain	99.0	-

Any concentration shown as a range is to protect confidentiality or is due to batch variation.

There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.

Occupational exposure limits, if available, are listed in Section 8.

Section 4. First aid measures

Description of necessary first aid measures

- Eye contact** : Immediately flush eyes with plenty of water, occasionally lifting the upper and lower eyelids. Check for and remove any contact lenses. Continue to rinse for at least 10 minutes. Get medical attention if irritation occurs.
- Inhalation** : Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, if breathing is irregular or if respiratory arrest occurs, provide artificial respiration or oxygen by trained personnel. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Get medical attention if adverse health effects persist or are severe. If unconscious, place in recovery position and get medical attention immediately. Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband. In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Skin contact** : Wash contaminated skin with soap and water. Remove contaminated clothing and shoes. Get medical attention if symptoms occur. Wash clothing before reuse. Clean shoes thoroughly before reuse.
- Ingestion** : Wash out mouth with water. Remove dentures if any. Remove victim to fresh air and keep at rest in a position comfortable for breathing. If the patient is conscious, induce vomiting with syrup of Ipecac (if not available, stimulate the back of the throat with finger). If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Get medical attention if adverse health effects persist or are severe. Never give anything by mouth to an unconscious person. If unconscious, place in recovery position and get medical attention immediately. If the patient is unconscious, maintain breathing and heart beat (CPR – Cardiopulmonary Resuscitation). Maintain an open airway. Loosen tight clothing such as a collar, tie, belt or waistband.

Most important symptoms/effects, acute and delayed

Potential acute health effects

- Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Harmful if swallowed.

Over-exposure signs/symptoms

- Eye contact** : Adverse symptoms may include the following:
irritation
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Section 4. First aid measures

Indication of immediate medical attention and special treatment needed, if necessary

- Notes to physician** : In case of inhalation of decomposition products in a fire, symptoms may be delayed. The exposed person may need to be kept under medical surveillance for 48 hours.
- Specific treatments** : No specific treatment.
- Protection of first-aiders** : No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation.

See toxicological information (Section 11)

Section 5. Fire-fighting measures

Extinguishing media

- Suitable extinguishing media** : Use dry chemical, CO₂, water spray (fog) or foam.
- Unsuitable extinguishing media** : Do not use water jet.

Specific hazards arising from the chemical : Fine dust clouds may form explosive mixtures with air. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Grains will burn at higher temperatures.

- Hazardous thermal decomposition products** : Decomposition products may include the following materials:
carbon dioxide
carbon monoxide
chlorine
hydrogen chloride

Special protective actions for fire-fighters : Promptly isolate the scene by removing all persons from the vicinity of the incident if there is a fire. No action shall be taken involving any personal risk or without suitable training. Move containers from fire area if this can be done without risk. Use water spray to keep fire-exposed containers cool.

Special protective equipment for fire-fighters : Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with a full face-piece operated in positive pressure mode.

Section 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures

For non-emergency personnel : No action shall be taken involving any personal risk or without suitable training. Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Shut off all ignition sources. No flares, smoking or flames in hazard area. Do not breathe dust. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. Dust Deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

For emergency responders : If specialized clothing is required to deal with the spillage, take note of any information in Section 8 on suitable and unsuitable materials. See also the information in "For non-emergency personnel".

Environmental precautions : Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).

Methods and materials for containment and cleaning up

Section 6. Accidental release measures

- Small spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Dispose of via a licensed waste disposal contractor. If unadulterated, product may be packaged in original container for use.
- Large spill** : Move containers from spill area. Use spark-proof tools and explosion-proof equipment. Approach release from upwind. Prevent entry into sewers, water courses, basements or confined areas. Avoid dust generation. Do not dry sweep. Vacuum dust with equipment fitted with a HEPA filter and place in a closed, labeled waste container. Avoid creating dusty conditions and prevent wind dispersal. Dispose of via a licensed waste disposal contractor. If unadulterated, product may be packaged in original container for use. Note: see Section 1 for emergency contact information and Section 13 for waste disposal.

Section 7. Handling and storage

Precautions for safe handling

- Protective measures** : Put on appropriate personal protective equipment (see Section 8). Do not get in eyes or on skin or clothing. Do not breathe dust. Do not ingest. Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Prevent dust accumulation. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Use only with adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Keep in the original container or an approved alternative made from a compatible material, kept tightly closed when not in use. Electrical equipment and lighting should be protected to appropriate standards to prevent dust coming into contact with hot surfaces, sparks or other ignition sources. Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Empty containers retain product residue and can be hazardous. Do not reuse container.
- Advice on general occupational hygiene** : Eating, drinking and smoking should be prohibited in areas where this material is handled, stored and processed. Workers should wash hands and face before eating, drinking and smoking. Remove contaminated clothing and protective equipment before entering eating areas. Shower at the end of each workday. See also Section 8 for additional information on hygiene measures.

- Conditions for safe storage, including any incompatibilities** : Store in accordance with local regulations. Store in a segregated and approved area. Store in original container protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see Section 10) and food and drink. Store apart from food or animal feed and protect against rodent penetration of the carton. Store apart from other pesticides, fertilizers, food or feed that may cause cross-contamination of odor or insect infestation. Store locked up. Eliminate all ignition sources. Separate from oxidizing materials. Keep container tightly closed and sealed until ready for use. Containers that have been opened must be carefully resealed and kept upright to prevent leakage. Do not store in unlabeled containers. Use appropriate containment to avoid environmental contamination.

Section 8. Exposure controls/personal protection

Control parameters

Occupational exposure limits

4-Aminopyridine

None.

Grain dust

OSHA PEL (United States).

TWA: 10 mg/m³

NIOSH REL (United States, 4/2013).

TWA: 4 mg/m³

ACGIH TLV (United States, 2015).

TWA: 4 mg/m³

Section 8. Exposure controls/personal protection

Appropriate engineering controls : Use only with adequate ventilation. If user operations generate dust, fumes, gas, vapor or mist, use process enclosures, local exhaust ventilation or other engineering controls to keep worker exposure to airborne contaminants below any recommended or statutory limits. The engineering controls also need to keep gas, vapor or dust concentrations below any lower explosive limits. Use explosion-proof ventilation equipment.

Environmental exposure controls : Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Individual protection measures

Hygiene measures : Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.

Eye/face protection : Safety eyewear complying with an approved standard should be used when a risk assessment indicates this is necessary to avoid exposure to liquid splashes, mists, gases or dusts. If contact is possible, the following protection should be worn, unless the assessment indicates a higher degree of protection: safety glasses with side-shields. If operating conditions cause high dust concentrations to be produced, use dust goggles.

Skin protection

Hand protection : Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary. Considering the parameters specified by the glove manufacturer, check during use that the gloves are still retaining their protective properties. It should be noted that the time to breakthrough for any glove material may be different for different glove manufacturers. In the case of mixtures, consisting of several substances, the protection time of the gloves cannot be accurately estimated.

Body protection : Wear a long sleeved uniform, coveralls or lab jacket when handling or blending these products with untreated grains. Personal protective equipment for the body should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Other skin protection : Appropriate footwear and any additional skin protection measures should be selected based on the task being performed and the risks involved and should be approved by a specialist before handling this product.

Respiratory protection : Use a properly fitted, particulate filter respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure an MSHA/NIOSH-approved respirator or equivalent is used.

Section 9. Physical and chemical properties

Appearance

Physical state : Solid.
Color : Grain color.
Odor : Odorless.
Odor threshold : Not available.
pH : Not applicable.
Melting point : Not applicable.
Boiling point : Not applicable.
Flash point : Not applicable.
Evaporation rate : Not applicable.
Flammability (solid, gas) : Not available.

Section 9. Physical and chemical properties

Lower and upper explosive (flammable) limits	: Not applicable.
Vapor pressure	: Not applicable.
Vapor density	: Not applicable.
Relative density	: Not applicable.
Solubility	: Not available.
Solubility in water	: Insoluble.
Partition coefficient: n-octanol/water	: Not available.
Auto-ignition temperature	: Not available.
Decomposition temperature	: Not available.
Viscosity	: Not available.

Section 10. Stability and reactivity

Reactivity	: No specific test data related to reactivity available for this product or its ingredients.
Chemical stability	: The product is stable.
Possibility of hazardous reactions	: Under normal conditions of storage and use, hazardous reactions will not occur.
Conditions to avoid	: Avoid the creation of dust when handling and avoid all possible sources of ignition (spark or flame). Take precautionary measures against electrostatic discharges. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Prevent dust accumulation.
Incompatible materials	: Reactive or incompatible with the following materials: oxidizing materials water excessive heat fire chemicals
Hazardous decomposition products	: Under normal conditions of storage and use, hazardous decomposition products should not be produced. Under normal conditions of storage and use, hazardous polymerization will not occur.

Section 11. Toxicological information

Information on toxicological effects

Acute toxicity

Product/ingredient name	Result	Species	Dose	Exposure
4-Aminopyridine	LD50 Oral	Rat	20 mg/kg	-

Irritation/Corrosion

Not available.

Sensitization

Not available.

Mutagenicity

Not available.

Carcinogenicity

Section 11. Toxicological information

Not available.

Reproductive toxicity

Not available.

Teratogenicity

Not available.

Specific target organ toxicity (single exposure)

Not available.

Specific target organ toxicity (repeated exposure)

Not available.

Aspiration hazard

Not available.

Information on the likely routes of exposure : Not available.

Potential acute health effects

- Eye contact** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the eyes.
- Inhalation** : Exposure to airborne concentrations above statutory or recommended exposure limits may cause irritation of the nose, throat and lungs.
- Skin contact** : No known significant effects or critical hazards.
- Ingestion** : Harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

- Eye contact** : Adverse symptoms may include the following:
irritation
redness
- Inhalation** : Adverse symptoms may include the following:
respiratory tract irritation
coughing
- Skin contact** : No specific data.
- Ingestion** : No specific data.

Delayed and immediate effects and also chronic effects from short and long term exposure

Short term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Long term exposure

- Potential immediate effects** : Not available.
- Potential delayed effects** : Not available.

Potential chronic health effects

Not available.

- General** : Repeated or prolonged inhalation of dust may lead to chronic respiratory irritation.
- Carcinogenicity** : No known significant effects or critical hazards.
- Mutagenicity** : No known significant effects or critical hazards.
- Teratogenicity** : No known significant effects or critical hazards.
- Developmental effects** : No known significant effects or critical hazards.
- Fertility effects** : No known significant effects or critical hazards.

Section 11. Toxicological information

Numerical measures of toxicity

Acute toxicity estimates

Route	ATE value
Oral	2000 mg/kg

Section 12. Ecological information

Toxicity

Product/ingredient name	Result	Species	Exposure
4-Aminopyridine	Acute EC50 3200 µg/l Fresh water	Daphnia - Daphnia magna - Juvenile (Fledgling, Hatchling, Weanling)	48 hours
	Acute LC50 2430 µg/l Fresh water	Fish - Ictalurus punctatus - Young	96 hours

Persistence and degradability

Not available.

Bioaccumulative potential

Product/ingredient name	LogP _{ow}	BCF	Potential
4-Aminopyridine	0.32	4.57	low

Mobility in soil

Soil/water partition coefficient (K_{oc}) : Not available.

Other adverse effects : No known significant effects or critical hazards.

Section 13. Disposal considerations

Disposal methods : The generation of waste should be avoided or minimized wherever possible. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any federal, state and regional local authority requirements. Dispose of surplus and non-recyclable products via a licensed waste disposal contractor. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of all authorities with jurisdiction. Waste packaging should be recycled. Incineration or landfill should only be considered when recycling is not feasible. This material and its container must be disposed of in a safe way. Empty containers or liners may retain some product residues. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

United States - RCRA Acute hazardous waste "P" List

Ingredient	CAS #	Status	Reference number
4-Aminopyridine; 4-Pyridinamine	504-24-5	Listed	P008

Section 14. Transport information

	DOT Classification	TDG Classification	Mexico Classification	ADR/RID	IMDG	IATA
UN number	Not regulated.	Not determined.	Not determined.	Not determined.	Not regulated.	Not regulated.
UN proper shipping name	-	-	-	-	-	-
Transport hazard class(es)	-	-	-	-	-	-
Transport Label						
Packing group	-	-	-	-	-	-
Environmental hazards	-	-	-	-	-	-
Additional information	-	-	-	-	-	-

Special precautions for user : **Transport within user's premises:** always transport in closed containers that are upright and secure. Ensure that persons transporting the product know what to do in the event of an accident or spillage.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code : Not available.

Section 15. Regulatory information

U.S. Federal regulations : **TSCA 8(a) PAIR:** 4-Aminopyridine
TSCA 8(a) CDR Exempt/Partial exemption: Not determined
United States inventory (TSCA 8b): All components are listed or exempted.

FIFRA Information: This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION:
 Harmful if swallowed.
 May cause irritation.
 Avoid contact with eyes or clothing.
 Wash thoroughly with soap and water after handling.

Clean Air Act Section 112 (b) Hazardous Air Pollutants (HAPs) : Not listed

Clean Air Act Section 602 Class I Substances : Not listed

Clean Air Act Section 602 Class II Substances : Not listed

Section 15. Regulatory information

DEA List I Chemicals (Precursor Chemicals) : Not listed

DEA List II Chemicals (Essential Chemicals) : Not listed

SARA 302/304

Composition/information on ingredients

Name	%	EHS	SARA 302 TPQ		SARA 304 RQ	
			(lbs)	(gallons)	(lbs)	(gallons)
4-Aminopyridine	≥1 - <3	Yes.	500 / 10000	-	1000	-

SARA 304 RQ : 100000 lbs / 45400 kg

SARA 311/312

Classification : Fire hazard
Immediate (acute) health hazard

Composition/information on ingredients

Name	%	Fire hazard	Sudden release of pressure	Reactive	Immediate (acute) health hazard	Delayed (chronic) health hazard
Grain	99.0	Yes.	No.	No.	No.	No.
4-Aminopyridine	1.0	No.	No.	No.	Yes.	No.

State regulations

- Massachusetts** : The following components are listed: 4-PYRIDINAMINE
- New York** : The following components are listed: 4-Pyridinamine
- New Jersey** : The following components are listed: AVITROL; 4-AMINOPYRIDINE
- Pennsylvania** : The following components are listed: PYRIDINE,4-AMINO-

International regulations

Chemical Weapon Convention List Schedules I, II & III Chemicals

Not listed.

Montreal Protocol (Annexes A, B, C, E)

Not listed.

Stockholm Convention on Persistent Organic Pollutants

Not listed.

Rotterdam Convention on Prior Inform Consent (PIC)

Not listed.

UNECE Aarhus Protocol on POPs and Heavy Metals

Not listed.

International lists

National inventory

- Australia** : Not determined.
- Canada** : Not determined.
- China** : Not determined.
- Europe** : Not determined.
- Japan** : Not determined.
- Malaysia** : Not determined.
- New Zealand** : Not determined.
- Philippines** : Not determined.

Section 15. Regulatory information

Republic of Korea : Not determined.
Taiwan : Not determined.

Section 16. Other information

National Fire Protection Association (U.S.A.)



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Copyright ©2001, National Fire Protection Association, Quincy, MA 02269. This warning system is intended to be interpreted and applied only by properly trained individuals to identify fire, health and reactivity hazards of chemicals. The user is referred to certain limited number of chemicals with recommended classifications in NFPA 49 and NFPA 325, which would be used as a guideline only. Whether the chemicals are classified by NFPA or not, anyone using the 704 systems to classify chemicals does so at their own risk.

Procedure used to derive the classification

Classification	Justification
Comb. Dusts Acute Tox. 4	On basis of test data Calculation method

History

Date of printing : 07/15/2015
Date of issue/Date of revision : 07/15/2015
Date of previous issue : No previous validation.
Version : 1

Key to abbreviations : ATE = Acute Toxicity Estimate
BCF = Bioconcentration Factor
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
IATA = International Air Transport Association
IBC = Intermediate Bulk Container
IMDG = International Maritime Dangerous Goods
LogPow = logarithm of the octanol/water partition coefficient
MARPOL 73/78 = International Convention for the Prevention of Pollution From Ships, 1973 as modified by the Protocol of 1978. ("Marpol" = marine pollution)
UN = United Nations

References : Not available.

Indicates information that has changed from previously issued version.

Notice to reader

Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids, for safe handling.

To the best of our knowledge, the information contained herein is accurate. However, neither the above-named supplier, nor any of its subsidiaries, assumes any liability whatsoever for the accuracy or completeness of the information contained herein.

Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described herein, we cannot guarantee that these are the only hazards that exist.



Innolytics, LLC
The Pigeon Control Company

OvoControl[®] P
Ready-to-Use Bait
(EPA Reg No: 80224-1)

FOR USE IN REDUCING EGG HATCH IN PIGEONS
(Columba livia, Rock Dove, Feral Pigeon)

ACTIVE INGREDIENT

Nicarbazin..... 0.5%

INERT INGREDIENTS..... 99.5%

TOTAL..... 100.0%

KEEP OUT OF REACH OF CHILDREN
CAUTION

PRECAUCION: Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

Precautionary Statements

Hazards to Humans and Domestic Animals:

CAUTION: Causes moderate eye irritation. Remove and wash contaminated clothing before reuse. Avoid contact with eyes or clothing. Wear protective eyewear. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Wear: Long sleeved shirt and long pants, socks, shoes and gloves.

First Aid

If in Eyes	<ul style="list-style-type: none"> • Hold eye open and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. • Call a poison control center or doctor for treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	
Note to Physician: Treat symptomatically.	

Manufactured by: Innolytics, LLC, 2612 Calle Onice, San Clemente CA 92673

EPA Reg. No: 80224-1

EPA Est. No.: 009811-ID-001

Net Weight: 30 pounds (13.61 kgs)

For Technical Support and Information Call: 888.908.0853

Important!

Read This Entire Label Before Using This Product: Replace label in pouch and reseal after reading.

Environmental Hazards

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

Information

OvoControl P is a ready-to-use bait designed for administration only to feral pigeons. For efficacy, OvoControl P must be fed daily during the nesting period and consistently consumed by the birds. OvoControl P reduces egg hatchability. Pigeons fed OvoControl P according to label directions may continue to lay eggs, although the hatch rate will be reduced.

This product will reduce egg hatchability and adversely affect other aspects of reproduction in all avian species. OvoControl P is not recommended for individual homeowner use.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Use Restrictions

- For outdoor use only to control feral pigeons.
- For use in non-food areas of manufacturing facilities, power utilities, hospitals, food processing plants, distribution centers, oil refineries and processing centers, chemical plants, rail yards, schools, campuses, military bases, seaports, hotels, apartments, condominiums, maintenance yards, shopping malls, feed mills, airports and other commercial or industrial locations.
- Do not contaminate food or feed by application.
- OvoControl P may only be applied to rooftops or other flat paved or concrete surfaces. Use only in secured areas with limited public access.
- Applicators must ensure that children and pets do not come in contact with the bait.
- Do not apply within 20 feet of any body of water, including lakes, ponds or rivers.
- Not for use in Guam, American Samoa, Northern Mariana Islands or the U.S. Virgin Islands.
- See additional restrictions under Non-Target Species.

Additional Requirements for use in Hawaii

- ✓ Prior to application, applicator must contact the Department of Land and Natural Resources and obtain a Wildlife Control Permit if one is required.
- ✓ Do not apply in areas where nene goose (*Nesochen sandvicensis*), Hawaiian coot (*Fulica alai*), Hawaiian moorhen (*Gallinula chloropus sandvicensis*) and Hawaiian duck (*Anas wyvilliana*) are known to occupy or graze.
- ✓ Users must notify the Pesticides Branch of the State of Hawaii Department of Agriculture, in writing prior to use. Two weeks advance notice must be given to allow time for consultation with Hawaii Department of Land and Natural Resources and the U.S. Fish and Wildlife Service.
- ✓ Observe warnings under the **Non-Target Species** section of the label. In Hawaii, Zebra doves (aka, Barred Ground dove, Blue-faced dove) *Geopelia striata*; Mountain doves (aka, Spotted dove, Chinese dove, Pearl-necked dove, Lace-necked dove) *Spilopelia chinensis*; and Common myna (aka, Common mynah, Indian myna) *Acridotheres tristis*, are exempt from the non-target restrictions.

Application Rate and Directions

Depending on the climatic zone and habitat, pigeons nest seasonally or year-round. Pigeons have a social order and baiting strategy must accommodate their behavior.

Bait must be broadcast to allow all birds opportunity to consume the bait. To ensure that the pigeons receive bait daily, OvoControl must only be applied with an automatic wildlife feeder programed to trigger once a day, shortly after dawn.

Begin the OvoControl program by locating a suitable flat rooftop to install an automatic feeder(s). Each feeder will accommodate up to 150 pigeons.

If a flat rooftop is not available, identify a suitable flat paved or concrete surface appropriate for the application of OvoControl P. Choose secured areas with limited public access. Do not apply bait to areas where water may accumulate or to standing water.

Begin conditioning the pigeons with cracked corn or other grains at a rate of one pound (1lb) per 80 birds per day until the birds are accustomed to the daily baiting event. Conditioning is a process whereby the birds become habituated to the daily feeding routine.

Pigeons are fully conditioned to the baiting event when they return to the same site each day for feeding. Depending on site characteristics and pigeon behavior, the conditioning period can last from three (3) to thirty (30) days. If pigeons cannot be conditioned to consume the pre-bait within 30 days, discontinue baiting at that location.

Monitor the baiting site periodically to ensure that pigeons and no other birds or animals are converging on the feeder each morning. Do not apply if non-target feeding persists and/or cannot be prevented.

Once pre-bait is consumed consistently, gradually transition the pigeons to OvoControl P. Add OvoControl to the feeder and mix with the remaining pre-bait. Gradually increase the proportion of OvoControl over a period of two (2) to four (4) weeks until no pre-bait remains.

Feeding must continue DAILY through the entire breeding season, which can last all year. The daily dose (based on flock size) must be entirely consumed within 15 minutes of application. Periodically monitor the site and reconfirm pigeon numbers. The daily amount of bait applied must be increased or decreased according to the number of pigeons at the feeder.

Any accumulation of bait indicates that the birds are not consuming it regularly. In this event, remove uneaten bait and restart the conditioning program with pre-bait. Discontinue use at any location where the conditioning program fails repeatedly to consistently attract the flock.

Dosage Calculation:

Estimated pigeon population x 0.2 ounces (5 grams) OvoControl P = Amount of OvoControl P to be applied daily.

For example,

8 ounces of bait = 40 pigeons
1 pound of bait = 80 pigeons
2 pounds of bait = 160 pigeons

Follow the operating instructions on the automatic feeder to set the correct application rate. Confirm feeder calibration prior to baiting.

Non-target Species

Do not apply more OvoControl P than the pigeons will eat in a single feeding, as this may result in non-target species' exposure to leftover bait. Do not apply in areas where the product may be consumed by federally listed Threatened and Endangered birds.

Do not apply if non-target feeding persists and/or cannot be prevented. English house sparrows (*Passer domesticus*), European starlings (*Sturnus vulgaris*), Red-winged (*Agelaius phoeniceus*), Yellow-headed (*Xanthocephalus xanthocephalus*), and Brewers (*Euphagus cyanocephalus*) Blackbirds, Great-tailed (*Quiscalus mexicanus*) Boat-tailed (*Quiscalus major*) and Common (*Quiscalus quiscula*) Grackles and Brown-headed (*Molothrus ater*) and Bronzed (*Molothrus aeneus*) Cowbirds are exempt from this restriction. It is a violation of state and federal law to intentionally feed treated bait to non-target species, including protected species.

IMPORTANT: READ BEFORE USE

Read the entire **Directions for Use, Conditions, Disclaimer of Warranties and Limitations of Liability** before using this product. If terms are not acceptable, return the unopened bag at once.

By using this product, user or buyer accepts the following Conditions, Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all the risks associated with the use of this product. Lack of performance, inefficacy or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application, all of which are beyond the control of Innolytics, LLC (“Innolytics”). All such risk shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, INNOLYTICS MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR OTHERWISE, THAT EXTEND BEYOND THE STATEMENTS MADE ON THIS LABEL. No agent of Innolytics is authorized to make any warranties beyond those contained herein or to modify the warranties contained herein. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, INNOLYTICS, THE MANUFACTURER, OR THE SELLER SHALL NOT BE LIABLE WHATSOEVER FOR ANY CONSEQUENTIAL, SPECIAL, OR INCIDENTAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE BUYER AND THE USER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES.

LIMITATIONS OF LIABILITY: TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE SHALL NOT EXCEED THE PURCHASE PRICE PAID, OR AT INNOLYTICS’ ELECTION, THE REPLACEMENT OF THE PRODUCT.

Storage and Disposal

Do not contaminate water, food or feed by storage and disposal.

Pesticide Storage: Store at or below room temperature. Store bait in a DRY location, free of other pests.

Pesticide Disposal: Wastes resulting from the use of this product must be disposed of at an approved waste disposal facility.

Container Disposal: If empty: Do not reuse this container. Place in trash or offer for recycling if available. If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain. Keep unused bait dry.

<p style="text-align: center;">MONSANTO COMPANY Safety Data Sheet Commercial Product</p>

1. PRODUCT AND COMPANY IDENTIFICATION

Product name

Roundup PRO® Concentrate Herbicide

EPA Reg. No.

524-529

Chemical name

Not applicable.

Synonyms

None.

Company

MONSANTO COMPANY, 800 N. Lindbergh Blvd., St. Louis, MO, 63167

Telephone: 800-332-3111, **Fax:** 314-694-5557

E-mail: safety.datasheet@monsanto.com

Emergency numbers

FOR CHEMICAL EMERGENCY, SPILL LEAK, FIRE, EXPOSURE, OR ACCIDENT Call CHEMTREC - Day or Night: 1-800-424-9300 toll free in the continental U.S., Puerto Rico, Canada, or Virgin Islands. For calls originating elsewhere: 703-527-3887 (collect calls accepted).

FOR MEDICAL EMERGENCY - Day or Night: +1 (314) 694-4000 (collect calls accepted).

2. HAZARDS IDENTIFICATION

Emergency overview

Appearance and odour (colour/form/odour): Pale amber - Pale brown / Liquid, (viscous) / Slight

CAUTION!

CAUSES MODERATE EYE IRRITATION

Potential health effects

Likely routes of exposure

Skin contact, eye contact, inhalation

Eye contact, short term

Causes moderate but temporary eye irritation.

Skin contact, short term

Not expected to produce significant adverse effects when recommended use instructions are followed.

Inhalation, short term

Not expected to produce significant adverse effects when recommended use instructions are followed.

Single ingestion

Not expected to produce significant adverse effects when recommended use instructions are followed.

Refer to section 11 for toxicological and section 12 for environmental information.

OSHA Status

This product is hazardous according to the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Active ingredient

Isopropylamine salt of N-(phosphonomethyl)glycine; {Isopropylamine salt of glyphosate}

Composition

COMPONENT	CAS No.	% by weight (approximate)
Isopropylamine salt of glyphosate	38641-94-0	50.2
Surfactant	61791-26-2	13
Other ingredients		36.8

|| The specific chemical identity is being withheld because it is trade secret information of Monsanto Company.

4. FIRST AID MEASURES

Use personal protection recommended in section 8.

Eye contact

If in eyes, hold eye open and rinse slowly and gently for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice.

Skin contact

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

Inhalation

|| If inhaled, move person to fresh air. If person is not breathing, call emergency number or ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice.

Ingestion

Call poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison center or doctor. Do not give anything by mouth to an unconscious person.

Advice to doctors

This product is not an inhibitor of cholinesterase.

Antidote

Treatment with atropine and oximes is not indicated.

5. FIRE-FIGHTING MEASURES

Flash point

Does not flash.

Extinguishing media

Recommended: Water, foam, dry chemical, carbon dioxide (CO₂)

Unusual fire and explosion hazards

Minimise use of water to prevent environmental contamination.
Environmental precautions: see section 6.

Hazardous products of combustion

Carbon monoxide (CO), nitrogen oxides (NO_x), phosphorus oxides (P_xO_y)

Fire fighting equipment

Self-contained breathing apparatus.
Equipment should be thoroughly decontaminated after use.

6. ACCIDENTAL RELEASE MEASURES

Environmental precautions

SMALL QUANTITIES:

Low environmental hazard.

LARGE QUANTITIES:

Minimise spread.

Keep out of drains, sewers, ditches and water ways.

Methods for cleaning up

Contain spillage with sand bags or other means.

Absorb in earth, sand or absorbent material.

Dig up heavily contaminated soil.

Collect in containers for disposal.

Refer to section 7 for types of containers.

Flush residues with small quantities of water.

Minimise use of water to prevent environmental contamination.

Refer to section 13 for disposal of spilled material.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

7. HANDLING AND STORAGE

Good industrial practice in housekeeping and personal hygiene should be followed.

Handling

Avoid contact with eyes, skin and clothing.

When using do not eat, drink or smoke.

Wash hands thoroughly after handling or contact.

Wash contaminated clothing before re-use.

Thoroughly clean equipment after use.

Do not contaminate drains, sewers and water ways when disposing of equipment rinse water.

Refer to section 13 of the safety data sheet for disposal of rinse water.

Emptied containers retain vapour and product residue.

FOLLOW LABELLED WARNINGS EVEN AFTER CONTAINER IS EMPTIED.

Storage

Compatible materials for storage: stainless steel, fibreglass, plastic, glass lining

Incompatible materials for storage: unlined mild steel, galvanised steel, see section 10.

Keep out of reach of children.

Keep away from food, drink and animal feed.

Keep only in the original container.

Keep container tightly closed in a cool, well-ventilated place.

Recommended maximum shelf life: 2 years.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Airborne exposure limits

Components	Exposure Guidelines
Isopropylamine salt of glyphosate	No specific occupational exposure limit has been established.
Surfactant	No specific occupational exposure limit has been established.
Other ingredients	No specific occupational exposure limit has been established.

Engineering controls

No special requirement when used as recommended.

Eye protection

If there is significant potential for contact:
Wear chemical goggles.

Skin protection

If repeated or prolonged contact:
Wear chemical resistant gloves.
Applicators and other handlers must wear:
Wear long sleeved shirt, long pants and shoes with socks.

Respiratory protection

No special requirement when used as recommended.

When recommended, consult manufacturer of personal protective equipment for the appropriate type of equipment for a given application.

9. PHYSICAL AND CHEMICAL PROPERTIES

These physical data are typical values based on material tested but may vary from sample to sample. Typical values should not be construed as a guaranteed analysis of any specific lot or as specifications for the product.

Colour/colour range:	Pale amber - Pale brown
Odour:	Slight
Form:	Liquid, (viscous)
Physical form changes (melting, boiling, etc.):	
Melting point:	Not applicable.
Boiling point:	No data.
Flash point:	Does not flash.
Explosive properties:	No data.
Auto ignition temperature:	No data.
Specific gravity:	1.199 @ 20 °C /@ 15.6 °C
Vapour pressure:	No significant volatility; aqueous solution.
Vapour density:	Not applicable.
Evaporation rate:	No data.
Dynamic viscosity:	No data.
Kinematic viscosity:	No data.
Density:	1.199 g/cm ³
Solubility:	Water: Soluble
pH:	4.8
Partition coefficient:	log Pow: -3.2 @ 25 °C (glyphosate)

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions of handling and storage.

Oxidizing properties

No data.

Materials to avoid/Reactivity

Reacts with galvanised steel or unlined mild steel to produce hydrogen, a highly flammable gas that could explode.

Hazardous decomposition

Thermal decomposition: Hazardous products of combustion: see section 5.

Self-accelerating decomposition temperature (SADT)

No data.

11. TOXICOLOGICAL INFORMATION

This section is intended for use by toxicologists and other health professionals.

Data obtained on similar products and on components are summarized below.

Similar formulation

Acute oral toxicity

Rat, LD50: > 5,000 mg/kg body weight

Practically non-toxic.

FIFRA category IV.

Acute dermal toxicity

Rat, LD50: > 5,000 mg/kg body weight

Practically non-toxic.

FIFRA category IV.

Skin irritation

Rabbit, 6 animals, OECD 404 test:

Days to heal: 10

Primary Irritation Index (PII): 1.7/8.0

Slight irritation.

FIFRA category IV.

Eye irritation

Rabbit, 6 animals, OECD 405 test:

Days to heal: 7

Moderate irritation.

FIFRA category III.

Acute inhalation toxicity

Rat, LC50, 4 hours, aerosol:

Practically non-toxic.

FIFRA category IV.

No 4-hr LC50 at the maximum achievable concentration.

Skin sensitization

Guinea pig, 3-induction Buehler test:

Positive incidence: 0 %

Negative.

No skin sensitization

N-(phosphonomethyl)glycine; { glyphosate}

Mutagenicity

In vitro and in vivo mutagenicity test(s):

Not mutagenic.

Repeated dose toxicity

Rabbit, dermal, 21 days:

NOAEL toxicity: > 5,000 mg/kg body weight/day

Target organs/systems: none

Other effects: none

Rat, oral, 3 months:

NOAEL toxicity: > 20,000 mg/kg diet
Target organs/systems: none
Other effects: none

Chronic effects/carcinogenicity

Mouse, oral, 24 months:

NOAEL toxicity: ~ 5,000 mg/kg diet
Target organs/systems: liver
Other effects: decrease of body weight gain, histopathologic effects
NOEL tumour: > 30,000 mg/kg diet
Tumours: none

Rat, oral, 24 months:

NOAEL toxicity: ~ 8,000 mg/kg diet
Target organs/systems: eyes
Other effects: decrease of body weight gain, histopathologic effects
NOEL tumour: > 20,000 mg/kg diet
Tumours: none

Toxicity to reproduction/fertility

Rat, oral, 2 generations:

NOAEL toxicity: 10,000 mg/kg diet
NOAEL reproduction: > 30,000 mg/kg diet
Target organs/systems in parents: none
Other effects in parents: decrease of body weight gain
Target organs/systems in pups: none
Other effects in pups: decrease of body weight gain
Effects on offspring only observed with maternal toxicity.

Developmental toxicity/teratogenicity

Rat, oral, 6 - 19 days of gestation:

NOAEL toxicity: 1,000 mg/kg body weight
NOAEL development: 1,000 mg/kg body weight
Other effects in mother animal: decrease of body weight gain, decrease of survival
Developmental effects: weight loss, post-implantation loss, delayed ossification
Effects on offspring only observed with maternal toxicity.

Rabbit, oral, 6 - 27 days of gestation:

NOAEL toxicity: 175 mg/kg body weight
NOAEL development: 175 mg/kg body weight
Target organs/systems in mother animal: none
Other effects in mother animal: decrease of survival
Developmental effects: none

12. ECOLOGICAL INFORMATION

This section is intended for use by ecotoxicologists and other environmental specialists.

Data obtained on similar products and on components are summarized below.

Similar formulation

Aquatic toxicity, fish

Rainbow trout (*Oncorhynchus mykiss*):

Acute toxicity, 96 hours, static, LC50: 5.4 mg/L
Moderately toxic.

Bluegill sunfish (*Lepomis macrochirus*):

Acute toxicity, 96 hours, static, LC50: 7.3 mg/L
Moderately toxic.

Aquatic toxicity, invertebrates

Water flea (*Daphnia magna*):

Acute toxicity, 48 hours, static, EC50: 11 mg/L
Slightly toxic.

Avian toxicity

Mallard duck (*Anas platyrhynchos*):

Dietary toxicity, 5 days, LC50: > 5,620 mg/kg diet
Practically non-toxic.

Bobwhite quail (*Colinus virginianus*):

Dietary toxicity, 5 days, LC50: > 5,620 mg/kg diet
Practically non-toxic.

Arthropod toxicity

Honey bee (*Apis mellifera*):

Oral/contact, 48 hours, LD50: > 100 µg/bee
Practically non-toxic.

Soil organism toxicity, invertebrates

Earthworm (*Eisenia foetida*):

Acute toxicity, 14 days, LC50: > 1,250 mg/kg soil
Practically non-toxic.

Similar formulation

Aquatic toxicity, algae/aquatic plants

Green algae (*Selenastrum capricornutum*):

Acute toxicity, 72 hours, static, EbC50 (biomass): 12.4 mg/L
Slightly toxic.

N-(phosphonomethyl)glycine; { glyphosate}

Bioaccumulation

Bluegill sunfish (*Lepomis macrochirus*):

Whole fish: BCF: < 1
No significant bioaccumulation is expected.

Dissipation

Soil, field:

Half life: 2 - 174 days
Koc: 884 - 60,000 L/kg
Adsorbs strongly to soil.

Water, aerobic:

Half life: < 7 days

13. DISPOSAL CONSIDERATIONS

Product

Keep out of drains, sewers, ditches and water ways.
Recycle if appropriate facilities/equipment available.
Burn in proper incinerator.
Follow all local/regional/national/international regulations.

Container

See the individual container label for disposal information.
Triple or pressure rinse empty containers.
Pour rinse water into spray tank.
Store for collection by approved waste disposal service.
Recycle if appropriate facilities/equipment available.
Emptied containers retain vapour and product residue.
Observe all labelled safeguards until container is cleaned, reconditioned or destroyed.
Follow all local/regional/national/international regulations.
Do NOT re-use containers for any purpose other than for the storage of pesticides, if allowed by label.

Use handling recommendations in Section 7 and personal protection recommendations in Section 8.

14. TRANSPORT INFORMATION

The data provided in this section is for information only. Please apply the appropriate regulations to properly classify your shipment for transportation.

Not hazardous under the applicable DOT, ICAO/IATA, IMO, TDG and Mexican regulations.

15. REGULATORY INFORMATION

TSCA Inventory

All components are on the US EPA's TSCA Inventory

OSHA Hazardous Components

Surfactant(s)

SARA Title III Rules

Section 311/312 Hazard Categories

Immediate

Section 302 Extremely Hazardous Substances

Not applicable.

Section 313 Toxic Chemical(s)

Not applicable.

CERCLA Reportable quantity

Not applicable.

16. OTHER INFORMATION

The information given here is not necessarily exhaustive but is representative of relevant, reliable data.

Follow all local/regional/national/international regulations.

Please consult supplier if further information is needed.

In this document the British spelling was applied.

|| Significant changes versus previous edition.

	Health	Flammability	Instability	Additional Markings
NFPA	1	1	1	

0 = Minimal hazard, 1 = Slight hazard, 2 = Moderate hazard, 3 = Severe hazard, 4 = Extreme hazard

Full denomination of most frequently used acronyms. BCF (Bioconcentration Factor), BOD (Biochemical Oxygen Demand), COD (Chemical Oxygen Demand), EC50 (50% effect concentration), ED50 (50% effect dose), I.M. (intramuscular), I.P. (intraperitoneal), I.V. (intravenous), Koc (Soil adsorption coefficient), LC50 (50% lethality concentration), LD50 (50% lethality dose), LDLo (Lower limit of lethal dosage), LEL (Lower Explosion Limit), LOAEC (Lowest Observed Adverse Effect Concentration), LOAEL (Lowest Observed Adverse Effect Level), LOEC (Lowest Observed Effect Concentration), LOEL (Lowest Observed Effect Level), MEL (Maximum Exposure limit), MTD (Maximum Tolerated Dose), NOAEC (No Observed Adverse Effect Concentration), NOAEL (No Observed Adverse Effect Level), NOEC (No Observed Effect Concentration), NOEL (No Observed Effect Level), OEL (Occupational Exposure Limit), PEL (Permissible Exposure Limit), PII (Primary Irritation Index), Pow (Partition coefficient n-octanol/water), S.C. (subcutaneous), STEL (Short-Term Exposure Limit), TLV-C (Threshold Limit Value-Ceiling), TLV-TWA (Threshold Limit Value - Time Weighted Average), UEL (Upper Explosion Limit)

<p>This Material Safety Data Sheet (MSDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA-APPROVED PRODUCT LABELING (attached to and accompanying the product container). This MSDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course. Use, storage and disposal of pesticide products are regulated by</p>
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the EPA under the authority of the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) through the product labeling, and all necessary and appropriate precautionary, use, storage, and disposal information is set forth on that labeling. It is a violation of federal law to use a pesticide product in any manner not prescribed on the EPA-approved label.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, MONSANTO Company or any of its subsidiaries makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will MONSANTO Company or any of its subsidiaries be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR TO THE PRODUCT TO WHICH INFORMATION REFERS.



SEWER BACKUP • RIVER FLOODING • WATER/SMOKE DAMAGE RESTORATION
HOME • INDUSTRIAL • HOSPITAL • FARM & FOOD HANDLING AND PROCESS AREAS

ACTIVE INGREDIENTS:

Octyl Decyl Dimethyl Ammonium Chloride....	1.650%
Didecyl Dimethyl Ammonium Chloride	0.825%
Diocetyl Dimethyl Ammonium Chloride	0.825%
Alkyl (C ₁₄ , 50%; C ₁₂ , 40%; C ₁₆ , 10%) dimethyl benzyl ammonium chloride	2.200%

INERT INGREDIENTS 94.500%

TOTAL..... 100.000%

EPA Reg. No. 10324-80-64405 EPA Est. 64405-TN-1

MADE IN U.S.A.

**KEEP OUT OF REACH OF CHILDREN
DANGER PELIGRO**

First Aid

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

PELIGRO: SI NO PUEDE LEER EN INGLES, PREGUNTE A SU SUPERVISOR SOBRE LAS INSTRUCCIONES DE USO APROPIADAS ANTES DE TRABAJAR CON ESTE PRODUCTO.

DANGER: IF YOU CANNOT READ ENGLISH, ASK YOUR SUPERVISOR TO EXPLAIN THE APPROPRIATE DIRECTIONS FOR USE BEFORE WORKING WITH THIS PRODUCT.

PRECAUTIONARY STATEMENTS

Hazards to Humans & Domestic Animals

DANGER. Keep Out of Reach of Children. Corrosive. Causes irreversible eye damage and skin burns. Harmful if swallowed, absorbed through the skin. Harmful if inhaled. Avoid breathing spray mist. Do not get into eyes, on skin or on clothing. Wear goggles or face shield and rubber gloves and protective clothing when handling. Wash thoroughly with soap and water after handling and before eating, drinking, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not mix with oxidizers, anionic soaps and detergents.

NISUS DSV

Disinfectant, Cleaner, Mildewstat, Fungicide, Non-Food Contact Surface Sanitizer, Virucide*, Deodorizer for Hospitals, Nursing Homes, Whirlpools, Home, Hotels, Motels, Waterbed Conditioner, Institutional, Industrial, School, Dairy, Equine, Poultry/Turkey Farm, Veterinary, Restaurant, Food Handling and Process Areas, Federally Inspected Meat and Poultry Plants, Bar and Institutional Kitchen Use and for Harvesting & Handling Equipment. Effective in hard water up to 400 ppm hard-

ness (calculated as CaCO₃) in the presence of 5% serum contamination.

Small Fly Ovicidal Treatment.

Athletic Surface Disinfectant.

Formulated for effective Poultry, Swine Premise and Mushroom Farm Sanitation.

This formulation is for use on hard, non-porous surfaces in:

- Hospitals, medical and dental offices and clinics, healthcare facilities, nursing homes, physician offices, operating rooms/theaters, radiology rooms, isolation wards, quarantine areas, hospices, and medical research facilities.
- Patient care rooms & facilities, recovery rooms, Emergency Rooms, X-ray cat labs, exam rooms, newborn nurseries, neonatal units, orthopedics, respiratory therapy, surgi-centers, labs, out-patient surgical centers, blood collection rooms, central supply, housekeeping & janitorial rooms, ophthalmic/optometric facilities.
- EMS & fire facilities, emergency vehicles, ambulances, ambulance equipment/surfaces, police cars, fire trucks.
- Day care centers and nurseries, sick rooms, elder care centers, kindergartens, and preschools.
- Acute care institutions, alternate care institutions, home healthcare institutions.
- Life care retirement communities, elder care facilities.
- Restaurants, restaurants and bars, bars, kitchens, taverns, cafeterias, institutional kitchens, fast food operations and food storage areas.
- Supermarkets, convenience stores, retail and wholesale establishments, department stores, shopping malls, gift shops, video stores, bookstores, dressing rooms and laundries, photocopy centers, bicycle shops, auto repair centers.
- Computer manufacturing sites, toy factories.
- Food establishments, coffee shops, donut shops, bagel stores, pizza parlors, liquor stores.
- Crime scenes and funeral homes, morgues, mortuaries, burial vaults, mausoleums, autopsy rooms, cadaver processing areas.
- Police stations, courthouses, correctional facilities, jails, prisons, municipal government buildings, penitentiaries, correctional institutions, bus stations, train stations.
- Institutional facilities, laboratories, factories, business and office buildings, restrooms, hotels and motels, and transportation terminals, maintenance vehicles.
- Public restrooms, public facilities, waysides, travel rest areas, shower rooms, shower stalls, bathrooms, shower and bath areas.
- Hotels, motels, dormitories.
- Kitchens, bathrooms and other household areas.

- Homes, condos, apartments, vacation cottages, summer homes.
- Institutions, schools and colleges, commercial and industrial institutions, churches, classrooms, community colleges, universities, athletic facilities and locker rooms, exercise rooms, exercise facilities, gyms, gymnasiums, fieldhouses.
- Cosmetic manufacturing facilities, medical device manufacturing facilities, biotechnology firms, pharmaceutical manufacturing facilities, warehouses.
- Health clubs, spas, tanning salons, tanning spas/beds, footbath surfaces, massage/facial salons, hair/nail/pedicure salons, barber/beauty shops, salons, tattoo parlors. *Not for use on needles or other skin piercing instruments.*
- Museums, art galleries, post offices, performance / theater centers, banks, libraries, movie houses, bowling alleys.
- Recycling centers.
- Humidifier water tanks.
- Campgrounds, playgrounds, recreational facilities, picnic facilities, sports arenas, sports complexes.
- Food processing plants, USDA inspected food-processing facilities, farms, dairy farms, hog farms, equine farms, poultry and turkey farms and egg processing plants, meat/poultry processing plants, meat/poultry producing establishments, mushroom farms, rendering plants, canneries, caterers, bakeries, meat packing plants, hide and leather processing plants.
- Processing facilities for Fish, Milk, Citrus, Wine, Fruit, Vegetable, Ice Cream, and Potatoes and beverage plants.
- Tobacco plant premises and equipment.
- Veterinary clinics, animal life science laboratories, animal laboratories, animal research centers, animal quarantine areas, animal holding areas, animal breeding facilities, kennels, dog/cat animal kennels, breeding and grooming establishments, pet animal quarters, zoos, equine farms, pet shops, tack shops, operating rooms, washing areas, waiting rooms, examination rooms and other animal care facilities.
- Farmhouses, barns, sheds, tool sheds, barns, cattle barns, swine barns, sheep barns, horse barns, brooder houses, seed houses.
- Household and automotive garages, boats, ships, barges, watercraft, campers, RVs, trailers, mobile homes, cars, automobiles, trucks, delivery trucks, box-cars, tankers, tank trucks, buses, trains, taxis, helicopters and airplanes.
- Cruise lines, cruise ships, airline terminals, airports, shipping terminals, public transportation, transportation terminals.
- Commercial florist and flower shops.

- Basements, cellars, bedrooms, attics, living rooms and porches.

This product can be used on washable hard, non-porous surfaces such as:

- Food preparation and storage areas.
- Kitchen equipment such as trash compactors.
- Countertops, countertop laminates, stovetops, sinks, tub surfaces, non-food contact surfaces of Slurpee[®] machines, and exterior surfaces of appliances, refrigerators, microwave ovens and ice machines, shelves, racks and carts.
- Hospital beds, bed railings, bedpans, gurneys, traction devices, MRI, CAT, examining tables, scales, paddles, wheelchairs, hard, non-porous surfaces of cervical collars and neck braces, spine backboards, stretchers, unit stools, CPR training mannequins, curing lights, light lens covers, slit lamps, operating room lights, operating tables, oxygen hoods, dental chairs/countertops, examination tables, X-ray tables, washing areas, anesthesia, carts, whirlpool surfaces, footbath surfaces.
- Ultrasonic baths, whirlpools, whirlpool bathtubs.
- Highchairs, baby cribs, diaper changing stations, infant bassinets / cribs / warmers / incubators / care equipment, folding tables, hampers, laundry pails.
- Shower stalls, shower doors and curtains, bathtubs and glazed tiles, chrome plated intakes, toilets, toilet seats, toilet bowls, toilet bowl surfaces, urinals, empty diaper pails, portable and chemical toilets and latrine buckets, glazed porcelain, glazed tile and restroom fixtures, bathroom fixtures.
- Glass, laminated surfaces, metal, stainless steel, glazed porcelain, glazed ceramic, sealed granite, sealed marble, plastic, (such as polycarbonate, polyvinylchloride, polystyrene or polypropylene), sealed limestone, sealed slate, sealed stone, sealed terra cotta, sealed terrazzo, chrome and vinyl, Plexiglas[®], vanity tops.
- Tables, chairs, desks, folding tables, workstations, bed frames, lifts, washable walls, cabinets, doorknobs and garbage cans/pails, trash barrels, trash cans, trash containers, cuspidors and spittoons.
- Enameled surfaces, painted (finished) woodwork, Formica[®], vinyl and plastic upholstery, washable wallpaper.
- Sealed foundations, steps, plumbing fixtures, finished baseboards and windowsills.
- Exhaust fans, refrigerated storage and display equipment, coils and drain pans of air conditioning and refrigeration equipment and heat pumps.
- Large, inflatable, non-porous plastic and rubber structures such as animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment.

- Non-wooden picnic tables and outdoor furniture except cushions and wood frames.
- Tattoo equipment. (*Not for use on needles or other skin piercing instruments.*)
- Playground equipment.
- Automobile interiors.
- Maintenance equipment.
- Telephones and Telephone booths.
- External Lenses Vision correction including eyeglasses (not for use on contact lenses), protective eyewear, goggles, light lens covers,
- Optical instruments/implements.
- Hair clippers, cutting implements, plastic rollers, washable nail files.
- Hard hats, headphones.
- Kennel runs, cages, kennel/cages floors, conductive flooring, examination tables, veterinary x-ray tables.
- Hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chick boxes, egg cases, vans and trash containers, seed houses.
- Wrestling and gymnastic mats, athletic training tables, physical therapy tables, exercise equipment.
- Crypton barrier fabric.
- Drinking fountains.
- Windows and mirrors.

Contains no abrasives so it won't scratch surfaces.

This product is a phosphate-free formulation designed to provide effective cleaning, deodorizing and disinfection in areas where housekeeping is of prime importance in controlling the hazard of cross contamination on treated surfaces.

This product is an economical concentrate that can be used with a mop and bucket, trigger sprayers, sponge or by soaking.

This product can be applied through foaming apparatus, low-pressure sprayers, and fogging (wet misting) systems. Follow manufacturers' instructions when using this equipment.

This product is for use as a disinfectant on hard, non-porous surfaces. A potable water rinse is required after application on food contact surfaces.

This product delivers non-acid disinfection performance in an economical concentrate.

Effective sanitizer in the presence of soils.

This product is for use in kitchens, bathrooms and other household areas.

This product is a multi-surface cleaner, deodorizer and disinfectant. Use on windows, mirrors, and other non-food contact glass surfaces.

This product can be used in work areas such as tool rooms and garages for odor control and light duty cleaning.

Great for use in the kitchen, bathroom and other household areas. Eliminates odors. Deodorizes. Will not harm most surfaces.

Disinfects kitchen and bathroom surfaces. Sanitizes non-food contact kitchen and bathroom surfaces. Kills germs. Kills household bacteria. A potable water rinse is required after application on food contact surfaces.

Kills common kitchen and bathroom bacteria and viruses*.

For larger areas such as operating rooms and patient care facilities, this product is designed to provide both general cleaning and disinfection.

Will not cause swelling of transducer membrane or harm compressor plates.

This product is a versatile sanitizer and broad-spectrum disinfectant formulated for use in Ultrasonic Baths.

This product is a versatile cleaner, sanitizer and broad-spectrum disinfectant formulated for use on bath and therapy equipment.

Kills Avian Influenza A Virus H5N1 on pre-cleaned environmental surfaces.

This product is a one-step disinfectant that is effective against a broad-spectrum of bacteria, is virucidal*, including HIV-1, HCV & HBV, and inhibits the growth of mold and mildew and their odors when used as directed.

This product meets AOAC Use – Dilution Test Standards for hospital disinfectants at 400 ppm water hardness.

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing (*Duck*) Hepatitis B Virus.

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Bovine viral diarrhea virus (BVDV), a surrogate for human Hepatitis C virus.

This product has passed the Virucidal Efficacy of a Disinfectant for Use on Inanimate Environmental Surfaces Utilizing Human and Canine Coronavirus.

This product is a disinfectant and non-food contact surface sanitizer for cleanroom, and laboratory areas to disinfect washable, hard, non-porous non-food contact surfaces such as: Laminar-airflow equipment and Bio-Safety Cabinet work surfaces and exterior surfaces of the following: countertops, sinks, plumbing fixture surfaces, incubators, refrigerators and centrifuge surfaces of metal, stainless steel, glass, plastic such as polystyrene or polypropylene, Formica® and vinyl.

This product is a one-step disinfectant cleaner and odor neutralizer designed for general cleaning, disinfecting, deodorizing and controlling mold and mildew on hard, non-porous environmental surfaces. This product cleans quickly by removing dirt, grime, mold, mildew, body oils, dead skin, blood and other organic matter commonly

found in hospitals, in health care facilities, nursing homes, schools and colleges, day care centers, medical offices, funeral homes, veterinary clinics, pet shops, equine farms, animal life science laboratories, hotels, motels, public areas and restrooms, foodservice establishments and food processing plants. It also eliminates odors leaving surfaces smelling clean and fresh. Use where odors are a problem.

Use this product to clean, sanitize and disinfect non-porous ambulance equipment and surfaces by rinsing all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. Precaution: Cleaning at 120°F temperature will avoid overheating and distortion of the ambulance equipment and surfaces that would necessitate replacement.

When used as directed, this product will deodorize surfaces in restroom and toilet areas, behind and under sinks and counters, garbage cans and garbage storage areas, and other places where bacterial growth can cause malodors.

This product is specially formulated to effectively eliminate offensive odors caused by mold and mildew.

This product is effective against household bacteria and odors caused by animal waste, septic tank or sewage backup, smoke and bathroom and kitchen odors.

This product inhibits bacterial growth on moist surfaces and deodorizes by killing microorganisms that cause offensive odors. *Not for use in California.*

This product is for use in household and commercial humidifiers. Use of this product will control unpleasant (malodors) odors.

This product cleans, disinfects and deodorizes surfaces by killing odor causing microorganisms and mold and mildew. Its non-abrasive formula is designed for use on restroom surfaces: glazed ceramic restroom tile, glazed porcelain, chrome, stainless steel and plastic surfaces associated with floors, walls, fixtures, toilets, urinals, sinks, shower rooms, and locker rooms.

This product is effective at controlling mold and mildew on shower curtains.

This product provides long lasting freshness against tough odors such as odors from litter boxes and pet accidents.

This product cleans, shines, deodorizes and disinfects all hard, non-porous household surfaces listed on the label. It inhibits the growth of mold and mildew, leaving bathrooms and kitchens clean and fresh smelling.

Eliminates odors caused by bacteria, mildew and non-fresh foods. Kills odor causing bacteria in the kitchen and bathroom.

This product is for non-scratch cleaning of showers and tubs, shower doors and shower curtains, fixtures and toilet bowls.

This product will not leave a grit or soap scum.

This product is a no-rinse disinfectant cleaner that disinfects, cleans and deodorizes in one labor-saving step.

Kills Athlete's Foot fungus on bathroom surfaces.

This product is a versatile Disinfectant/Sanitizer for Veterinarian, Veterinary Practice, Animal Care, Animal Laboratory, and Agricultural and Farm Premise applications.

This product cleans by removing dirt, grime, mold, mildew, blood, urine, fecal matter and other common soils found in animal housing facilities, livestock, swine or poultry facilities, grooming facilities, farms, kennels, pet stores, veterinary clinics, laboratories or other small animal facilities. It eliminates odors leaving surfaces smelling clean and fresh.

This product can be used to disinfect, clean and deodorize terrarium and small animal cages, hot rock, substrate and cage furniture, plastic terrarium ornaments, driftwood, heat caves and water dishes. *Use on rocks and driftwood not allowed in California.*

This product cleans rodent soiled areas.

This product is for use in Poultry Premise Sanitation/Hatcheries:

- Egg Receiving Area
- Egg Holding Area
- Setter Room
- Tray Dumping Area
- Chick Holding Area
- Hatchery Room
- Chick Processing Area
- Chick Loading Area
- Poultry Buildings

This product is for use in Swine Premise Sanitation:

- Farrowing Barns and Areas
- Waterers and Feeders
- Hauling Equipment
- Dressing Plants
- Loading Equipment
- Nursery
- Blocks
- Creep Area
- Chutes

This product is an effective antimicrobial cleaner, designed for use by wholesale and retail florists, shippers and greenhouses.

When used as directed, this product will disinfect hard, non-porous surfaces, such as flower buckets, floors and walls of coolers, design and packing benches, and countertops.

This product can be relied on to deodorize coolers, buckets, garbage pails and other areas where obnoxious odors develop.

Use this product to clean, disinfect and deodorize flower buckets, walls, floors of coolers, shippers, greenhouse packing areas, garbage pails and other areas where obnoxious odors develop.

This product can be used as a general purpose antimicrobial detergent in florist shops, wholesale florist, shippers, greenhouse packing areas and other commercial floriculture places for efficient cleaning and antimicrobial action against certain bacteria which cause. *Not for use in California:*

1. Plugging of stems with slime, which reduces uptake of water for various flowers including roses, chrysanthemums, gladioli and tulips.
2. Production of ethylene gas, which can injure blooms of the various sensitive flowers including carnations, snapdragons, some orchids, baby's breath, sweet peas, freesia and alstroemeria.

Use this product to disinfect non-porous salon/barber tools and instruments such as: combs, clippers, plastic rollers, brushes, trimmers, razors, scissors, blades, tweezers, baths, manicure/pedicure instruments and footbath surfaces.

Use this product to clean, sanitize and disinfect hard, non-porous surfaces of personal protective safety equipment, protective headgear, athletic helmets, wrestling/boxing headgear, athletic shoe soles, hard hats, headphones, half mask respirators, full face breathing apparatus, gas masks, goggles, spectacles, face shields, hearing protectors and ear muffs. Rinse all equipment that comes in prolonged contact with skin before reuse with clean warm water (about 120°F), and allow to air dry. Precaution: Cleaning at 120°F temperature will avoid overheating and distortion of the personal safety equipment that would necessitate replacement.

This product is formulated to provide effective cleaning strength that will not dull high gloss floor finishes with repeated use.

This product provides effective cleaning strength that will not dull most metal-interlock floor finishes, and does not require a rinse prior to recoat.

Controls the growth of odor-causing bacteria used in waterbed uses. Controls odors caused by bacteria. Prevents bubbles, preserves plasticizers, conditions vinyl interior, sequesters minerals. *(Not for use in CA.)*

Cleans everyday kitchen messes like dirt, grease and food stains. Cuts through tough grease and grime.

For use in: Federally inspected meat and poultry plants on all hard, non-porous surfaces in inedible product processing areas, non-processing areas and/or exterior areas. All surfaces must be thoroughly rinsed with potable water.

Escherichia coli, *Salmonella enterica*, and *Staphylococcus aureus* are common germs found where food is prepared and stored. This product kills these bacteria and helps prevent cross-contamination on treated non-food contact kitchen surfaces listed on this label. A potable water rinse is required after application on food contact surfaces. This product is not for use on dishes, glassware or eating utensils.

This product is effective against the control of small flies on non-food contact surfaces such as floors, walls, drains, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber and plastic in restaurants, kitchens, dishwashing areas and bar and wait station areas.

• Neutral (Neutral pH).

Will not harm sealed stone, sealed grout, or glazed tile.

This product is a complete, chemically balanced disinfectant and sanitizer that provides clear use solutions even in the presence of hard water.

This product is effective against Citrus Canker and Bacterial Spot of Tomatoes through the treatment of the handling, harvesting, storage and transportation equipment.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

DISINFECTION IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions): At 2 fluid ounces per gallon of water (or equivalent use dilution) and a 10-minute contact time, this product is effective against the following organisms on hard, non-porous inanimate surfaces:

Burkholderia cepacia
Campylobacter jejuni – ATCC 29428
Corynebacterium ammoniagenes – ATCC 6871
Enterobacter aerogenes – ATCC 13048
Enterobacteriaceae – with extended beta-lactamase resistance
Enterobacter cloacae
Enterococcus faecalis – ATCC 19433
Enterococcus faecium – Vancomycin resistant
Escherichia coli – ATCC 11229
Escherichia coli – Antibiotic resistant
Escherichia coli 0157:H7
Klebsiella pneumoniae – ATCC 13883
Klebsiella pneumoniae – Antibiotic resistant
Legionella pneumophila
Listeria monocytogenes – ATCC 984
Proteus mirabilis
Proteus vulgaris
Pseudomonas aeruginosa – ATCC 15442
Pseudomonas aeruginosa – Antibiotic resistant
Salmonella enterica – ATCC 10708
Salmonella schottmuelleri – ATCC 8759
Salmonella typhi – ATCC 6539
Serratia marcescens – ATCC 43861
Shigella dysenteriae – ATCC 9361
Shigella flexneri
Shigella sonnei
Staphylococcus aureus – ATCC 6538
Community Acquired Methicillin Resistant
Staphylococcus aureus – CA MRSA
Staphylococcus aureus – Methicillin resistant – ATCC 33591
Staphylococcus epidermidis – Antibiotic resistant

Streptococcus pyogenes – ATCC 19615

Vibrio cholerae

Xanthomonas axonopodis pv. *Citri* – Not for use in California

Xanthomonas campestris pv. *Vesicatoria* – Not for use in California

FOR SCHOOLS, INDUSTRY AND NON-MEDICAL INSTITUTIONAL USES: At 1 1/4 ounces per gallon of water (or equivalent use dilution), this product delivers cleaning and germicidal effectiveness. Treated surfaces must remain wet for 10 minutes, then allow to air dry or wipe. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution at least daily or more often if solution becomes diluted or soiled. It is effective against *Staphylococcus aureus*, *Salmonella enterica*, *Escherichia coli* and *Serratia marcescens*. The same AOAC tests used to confirm performance for hospitals were used.

VIRUCIDAL* PERFORMANCE: At 1 1/4 ounces per gallon of water use level (or equivalent use dilution) and a 10-minute contact time, this product was evaluated and found to be effective in the presence of 5% blood serum against the following viruses on hard, non-porous surfaces:

Avian influenza A/Turkey/Wisconsin virus – ATCC VR-798
Herpes Simplex Type1 virus – ATCC VR260
Herpes Simplex Type2 virus – ATCC VR734
HIV-1 – AIDS virus
Influenza A/Brazil Virus
Vaccinia virus

At 2 ounces per gallon of water use level (or equivalent use dilution) and a 10-minute contact time, this product was evaluated and found to be effective against the following viruses on hard, non-porous surfaces:

Avian influenza A/Turkey/Wisconsin virus – ATCC VR-798
Avian influenza A virus – H5N1
Hantavirus
Hepatitis B Virus – HBV
Hepatitis C Virus – HCV
Herpes Simplex Type1 virus – ATCC VR260
Herpes Simplex Type2 virus – ATCC VR734
HIV-1 – AIDS virus
Human Coronavirus
Influenza A/Brazil virus
Influenza A H1N1 virus (Strain A/PR/8/34) (ATCC VR-1469)
Respiratory syncytial virus
Vaccinia virus

NON-FOOD CONTACT SANITIZING PERFORMANCE: At 1 ounce per 2 3/4 gallons of water use-level (or equivalent use dilution) and a 3-minute contact time, this product is an effective one-step sanitizer on hard, non-porous environmental surfaces against:

Enterobacter aerogenes (ATCC 13048)
Klebsiella pneumoniae (ATCC 4352)
Staphylococcus aureus (ATCC 6538)

FUNGICIDAL ACTIVITY: At 2 ounces per gallon use-level (or equivalent use dilution) and a 10-minute contact time, this product is effective against the following organisms:

- Candida albicans* (ATCC 10231)
- Trichophyton mentagrophytes* (ATCC 9533)
(Athlete's foot fungus) (a cause of Ringworm)

GENERAL DISINFECTION DIRECTIONS: For heavily soiled areas, a preliminary cleaning is required. Apply use solution of 1 1/4 ounce per gallon of water to hard, inanimate, non-porous surfaces, thoroughly wetting surfaces as required, with a cloth, brush, mop, sponge or mechanical spray device. For sprayer applications, use a coarse pump or trigger spray device. Spray 6-8 inches from surface. Do not breathe spray. Rub with brush, sponge, mop or cloth. Allow surfaces to remain wet for 10 minutes. Rinse or allow to air dry or wipe up -excess liquid. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

FOR USE AS A ONE-STEP CLEANER/DISINFECTANT:

1. Pre-clean heavily soiled areas.
2. Apply use solution, 1 1/4 ounce per gallon (or equivalent use dilution) to hard, non-porous environmental surfaces using a sponge, brush, cloth, mop or mechanical spray device.
3. To disinfect, all surfaces must remain wet for 10 minutes.
4. Wipe surfaces and let air dry.
5. Prepare a fresh solution at least daily or when use solution becomes soiled.

Note: All food contact surfaces, such as appliances and kitchen countertops, must be rinsed with potable water. Do not use this product to clean or disinfect glassware, utensils, dishes or interior surfaces of appliances.

FOR DISINFECTING HARD, NON-POROUS SURFACES AGAINST AVIAN INFLUENZA A (H5N1) VIRUS:

For use in homes, hospitals, hotels, motels and schools, the directions for use for hospital disinfection must be followed using the rate of 2 ounces per gallon of water (or equivalent use dilution). For use in animal housing facilities, follow the animal premise directions.

TO SANITIZE AND DEODORIZE: Apply use solution of 2 ounces per 5 1/2 gallons of water to hard, inanimate, non-porous surfaces, thoroughly wetting surfaces as required, with a brush, cloth, mop, sponge or mechanical spray device or by immersion. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge, mop or cloth. Do not breathe spray. Let stand 3 minutes. Then wipe. Allow to air dry. Replace product if it becomes visibly dirty.

Note: With spray applications, cover or remove all food products.

GENERAL DISINFECTION/VIRUCIDAL* USE DILUTION CHART

Ounces of Product	Amount of Water
0.3125 ounces	1 quart
0.625 ounces	1/2 gallon
1 1/4 ounces	1 gallon
3.125 ounces	2 1/2 gallons
6 1/4 ounces	5 gallons
12 1/2 ounces	10 gallons

HOSPITAL DISINFECTION/FUNGICIDAL/VIRUCIDAL* USE DILUTION CHART

Ounces of Product	Amount of Water
1/2 ounce	1 quart
1 ounce	1/2 gallon
2 ounces	1 gallon
5 ounces	2 1/2 gallons
10 ounces	5 gallons
20 ounces	10 gallons

DILUTION CHART:

- For Hospital or Medical Environment claims 2 oz / 1 gal. water
- For General or Broad Spectrum claims 1 1/4 oz / 1 gal. water
- For Virucidal* claims 1 1/4 - 2 oz / 1 gal. water
- For Animal Virucidal* claims 1 1/4 - 2 oz / 1 gal. water
- For Non-Food Contact Sanitizing claims 1 oz / 2 3/4 gal. water
- For Fungicidal claims 2 oz / 1 gal. water
- For Mold and Mildew claims 1 1/4 oz / 1 gal. water

HOSPITAL/HEALTH CARE

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or, (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product can be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high-level disinfection.

This product is a Hospital Use Disinfectant at 2 ounces per gallon of water modified in the presence of 400 ppm hard water.

HOSPITALS, DENTAL OFFICES, NURSING HOMES AND OTHER HEALTH CARE INSTITUTIONS:

For disinfecting floors, walls, countertops, bathing areas, lavatories, bed frames, tables, chairs, garbage pails and other hard, non-porous surfaces.

INSTITUTIONAL DISINFECTANT DIRECTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions):

For heavily soiled areas, a preliminary cleaning is required. Add 2 ounces per gallon of water (or equivalent use dilution) and apply to disinfect hard, non-porous surfaces. Apply use solution to

hard, inanimate, non-porous surfaces, thoroughly wetting surfaces with a brush, cloth, mop, sponge or mechanical spray device. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge, mop or cloth. Do not breathe spray. Treated surfaces must remain wet for 10 minutes. Rinse or allow to air dry. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

Note: With spray applications cover or remove all food products.

***VIRUCIDAL PERFORMANCE:** For heavily soiled areas, a preliminary cleaning is required. Apply 2 ounces per gallon of water use level (or equivalent use dilution) to treated surfaces, thoroughly wetting surfaces with a brush, cloth, mop, sponge or mechanical spray device. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with brush, sponge, mop or cloth. Do not breathe spray. Treated surfaces must remain wet for ten minutes. Prepare a fresh solution at least daily or more often if solution becomes soiled.

At 1 1/4 ounce per gallon of water (or equivalent use dilution) in the presence of 5% blood serum and 400 ppm of hardness for a 2-minute contact time, this product was found to be effective against HIV-1 (AIDS Virus).

At 2 ounces per gallon of water (or equivalent use dilution) and in the presence of 400 ppm hard water (CaCO₃) and 100% serum, this product was proven to be effective against (*Duck*) Hepatitis B Virus with a contact time of 10 minutes.

At 2 ounces per gallon of water (or equivalent use dilution) and in the presence of 400 ppm hard water (CaCO₃) and 5% organic load, this product was proven to be effective against Bovine viral diarrhea virus (BVDV), a surrogate for human Hepatitis C virus with a contact time of 10 minutes.

***KILLS HBV, HCV and HIV ON PRECLEANED ENVIRONMENTAL SURFACES/OBJECTS PREVIOUSLY SOILED WITH BLOOD/BODY FLUIDS** in health care setting or other settings in which there is an expected likelihood of soiling of inanimate surfaces/objects with blood or body fluids and in which the surfaces/objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of (*Duck*) Hepatitis B Virus (HBV), human immunodeficiency virus Type 1 (HIV-1) which is associated with AIDS, and Hepatitis C Virus (HCV).

“SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HBV, HCV AND HIV-1 ON SURFACES/OBJECTS SOILED WITH BLOOD/BODY FLUIDS.”

Personal Protection: Specific barrier protection items to be used when handling items soiled with blood or body fluids are disposable latex gloves, gowns, masks, and eye protection.

Cleaning Procedure: Blood and other body fluids containing HIV-1, HBV & HCV must be thoroughly cleaned from surfaces and objects before application of this product.

Disposal of Infectious Materials: Blood and other body fluids, cleaning materials and clothing must be autoclaved and disposed of according to federal, state and local regulations for infectious waste disposal.

Contact Time: Leave surface wet for 2 minutes and 10 minutes for HIV-1 and HBV, respectively. This 2-minute contact time will not control other common type of viruses and bacteria listed on this label. For HCV, leave surface wet for 10 minutes.

SURGICAL INSTRUMENT PRESOAK: Add 2 ounces of this product to 1 gallon of water (or equivalent use dilution). Place pre-cleaned instruments in solution to presoak surgical instruments for a minimum of 10 minutes, then proceed with normal sterilization procedure. Prepare a fresh solution at least daily or more often if solution becomes visibly dirty.

Note: Plastic instruments can remain immersed until sterilization. Metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle until sterilization. Prolonged soaking will cause damage to metal instruments. Surgical instruments must be sterilized before use.

ULTRASONIC BATH DISINFECTANT/FUNGICIDE DIRECTIONS: Use this product to disinfect hard, non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of 2 ounces of this product per gallon of water (or equivalent use dilution) directly into bath chamber. Pre-clean heavily soiled objects. Place objects into unit and operate for a minimum of 10 minutes, according to the manufacturers' use directions. Remove objects and wash with sterile water or allow to air dry. Prepare fresh solution for each use.

FOR DISINFECTING / FUNGICIDAL ON HARD, NON-POROUS FIBERGLASS BATH AND THERAPY EQUIPMENT: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the unit, drain the water and refill with fresh water to just cover the intake valve. Add 2 ounces of this product for each gallon of water (or equivalent use dilution) in the unit at this point. Briefly start the pump to circulate the solution. Turn off pump. Wash down the unit sides, seat of the chair lift, and any/all related equipment with a clean swab, brush or sponge. Product to surface contact time must be at least 10 minutes for proper disinfection. After the unit has been thoroughly disinfected, drain solution from the unit and rinse any/all cleaned/disinfected surfaces with fresh water. The unit is ready for reuse.

CLEANING AND DISINFECTING HARD, NON-POROUS SURFACES ON PERSONAL PROTECTIVE EQUIPMENT (RESPIRATORS): Pre-clean equipment if heavily soiled to ensure proper surface contact. Apply a 2-ounce per gallon of water (or equivalent use dilution)

use solution to hard, non-porous surfaces of the respirator with a brush, coarse spray device, sponge or by immersion. Thoroughly wet all surfaces to be disinfected. Treated surfaces must remain wet for 10 minutes. Remove excess solution from equipment prior to storage. The user must comply with all OSHA regulations for cleaning respiratory protection equipment (29 CFR § 1910.134).

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES IN INSTITUTIONAL FACILITIES

ULTRASONIC BATH SANITIZING DIRECTIONS: Use this product to sanitize hard, non-porous, non-critical objects compatible with Ultrasonic cleaning units. Pour a fresh solution of 1 ounce per 2 3/4 gallons of water (or equivalent use dilution) directly into bath chamber. Pre-clean soiled objects. Place objects into unit and operate for a minimum of 3 minutes, according to manufacturers' use directions. Remove objects and rinse with sterile water, or allow to air dry. Replace solution at least daily or when solution becomes visibly dirty.

Note: This product in its use solution is compatible with stainless steel, aluminum and most other surfaces. Before product use, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

FOOD PROCESSING PREMISES

Before using this product, food products and packaging materials must be removed from the room or carefully protected. After use, all surfaces in the area must be thoroughly rinsed with potable water.

DIRECTIONS FOR FOOD PROCESSING PLANTS: For use on non-food contact surfaces such as floors, walls, tables, garbage cans and disposal areas. Before using this product, food products and packaging materials must be removed from the room or carefully protected. Follow Disinfection directions.

DIRECTIONS FOR FOOD STORAGE AREAS: For use on non-food contact surfaces such as shelves, floors, walls and tables. Before using this product, food products and packaging materials must be removed from the room or carefully protected. Then follow Disinfection directions.

FOR USE AS A CLEANER / DISINFECTANT IN FOOD PROCESSING PLANTS:

1. Before using this product in food processing areas, food products and packaging materials must be removed from the room or carefully protected.
2. Apply a 1 1/4 oz. per gallon of water use solution evenly over surface using a brush, cloth, mop, sponge or mechanical spray device. For sprayer applications, use a coarse spray device. Be sure to wet all surfaces thoroughly. Do not breathe spray.
3. Allow product to remain on surface for 10 minutes.
4. Wipe with clean cloth, sponge or paper towel.
5. For heavily soiled areas, thoroughly clean surface prior to disinfecting.

6. After disinfecting food contact surfaces used for food preparation, rinse surfaces thoroughly with potable water. This product must not be used to clean the following surfaces: utensils, glassware, dishes or interior surfaces of processing equipment.

TO DISINFECT FOOD-PROCESSING AND TOBACCO PREMISES:

Before using this product, food products and packaging materials must be removed from area or carefully protected. For floors, walls and storage areas, apply 2 oz. of this product per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a brush, mop, cloth, sponge or hand pump trigger spray device so as to wet all surfaces thoroughly. For sprayer application, use a coarse spray device. Allow surface to remain wet for 10 minutes, then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water.

TO DISINFECT FOOD SERVICE ESTABLISHMENT FOOD CONTACT SURFACES:

For countertops, exterior surfaces of appliances and tables: Before using this product, food products and packaging materials must be removed from area or carefully protected. Add 2 oz. per gallon of water. For heavily soiled areas, a pre-cleaning step is required. Apply solution with a brush, mop, cloth, sponge or hand pump trigger spray device so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Allow surface to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water. Replace solution at least daily or when solution becomes visibly dirty. This product is not for use on dishes, glassware, eating utensils or interior surfaces of processing equipment.

FOR USE ON NON-FOOD CONTACT SURFACES AS A GENERAL DISINFECTANT IN THE BREWERY INDUSTRY:

Use 2 ounces of this product per gallon of water (or equivalent use dilution). Follow the general disinfectant directions above.

DIRECTIONS FOR FOGGING IN DAIRIES, BEVERAGE AND FOOD PROCESSING PLANTS:

Prior to fogging, food products and packaging material must be removed from the room or carefully protected. After cleaning, fog desired areas using 1 quart per 1000 cubic feet of room area with a product solution containing 3 ounces of product to 1 gallon of water (or equivalent use dilution). Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Vacate the area of all personnel during fogging and for a minimum of 2 hours after fogging. All food contact surfaces must be thoroughly rinsed prior to reuse with potable water. Allow food contact surfaces to drain thoroughly before operations are resumed.

Note: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or building be entered by anyone within two hours of the actual fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. If the building must be entered, then the individuals entering the build-

ing must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.

DISINFECTING POTATO STORAGE AREA AND EQUIPMENT: Remove all potatoes prior to disinfection of potato storage area and equipment. Pre-clean hard surfaces by removing heavy soils or gross filth. Follow general disinfecting directions as outlined in that section. All treated surfaces must be thoroughly rinsed with potable water prior to reuse.

FOR CONTROL OF THE *DROSOPHILA* SPP. AND PHORIDAE FAMILY OF FLIES ON NON-FOOD CONTACT SURFACES: To control flies on non-food contact surfaces such as floors, walls, countertops, metal surfaces, painted surfaces, glazed porcelain, glazed tile, glass, chrome, rubber, and plastic in restaurants, kitchens, dishwashing areas, and bar and wait station areas. Remove food and food packaging prior to use. Cover exposed food-handling surfaces. After removing gross filth, apply a solution of 2 ounces of this product per gallon of water (or equivalent use dilution) to surfaces and locations where flies breed. Spray surfaces thoroughly or apply by pouring, mopping or sponging onto the surface. Repeat application 1-2 times per week or as needed. Do not contaminate food and food packaging.

FOR CONTROL OF SMALL FLIES IN DRAINS: For control of small flies: *Drosophila* spp. and the Phoridae family. Spray or pour solution of 2 ounces per gallon of water (or equivalent use dilution) into drain during time of lowest level of drain use. Add 14 ounces of solution daily to each drain to maintain fly control. Apply around the edge of the drain and coat all sides of inside of drain.

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES IN FOOD PROCESSING FACILITIES

SHOE / BOOT BATH SANITIZER DIRECTIONS: To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants, shoe baths containing one inch of freshly made solution must be placed at all entrances to buildings, hatcheries and at all the entrances to the production and packaging rooms. Scrape waterproof shoes and place in a 1 ounce of this product per 2.75 gallons of water (or equivalent use dilution) use solution for 3 minutes prior to entering area. Change the sanitizing solution in the bath at least daily or sooner if solution appears visibly dirty.

SHOE FOAM DIRECTIONS: To prevent cross contamination from area to area in animal areas, and the packaging and storage areas of food plants, apply a foam layer approximately 0.5 to 2 inches thick made from a solution of 1 ounce per 2.75 gallons of water (or equivalent use dilution) at all entrances to buildings, hatcheries, production and packaging rooms by using a foam generating machine or aerator to apply foam layer. Follow the foaming directions as specified by the manufacturer

of the foam generator/aerator. Scrape waterproof shoes. Stand and/or walk through foamed area for 3 minutes prior to entering area. Foam area must be washed and replaced at least daily or when it appears visibly dirty.

ENTRYWAY SANITIZING SYSTEMS: To prevent cross contamination from area to area, set the system to deliver 1 ounce per 2.75 gallons of water (or equivalent use dilution) of sanitizing solution. The spray or foam must cover the entire path of the doorway. Set the system so that a continuous wet blanket of sanitizer solution is delivered to the floor.

Do not mix other foam additives to the sanitizing solution.

MUSHROOM FARM INDUSTRY USE DIRECTIONS

At 2 ounces per gallon use-level, this product is effective against:

Dactylium dendroides – ATCC 6676

Site Preparation: The first step in any on-going sanitation program should be the removal of gross contamination and debris. This can be accomplished by using a shovel, broom, or vacuum, depending on the area to be disinfected.

Disinfection: Use 2 ounces of this product per gallon of water (or equivalent dilution). Wet all surfaces thoroughly. Treated surfaces must be allowed to remain wet for 10 minutes. Let air dry. For heavily soiled areas, pre-clean first. Prepare a fresh solution for each use.

For Heavy Duty Cleaning: When greater cleaning is desired, use 4 ounces of this product per gallon of water (or equivalent dilution). Heavily soiled areas will require repeated cleaning before treatment.

DO NOT APPLY TO THE MUSHROOM CROP, COMPOST OR CASING. Rinse treated surfaces with potable water before they contact the crop, compost or casing.

ANIMAL PREMISES

ANIMAL PREMISE VIRUCIDAL* PERFORMANCE: At 1 1/4 oz. per gallon of water, treated surfaces must remain wet for ten minutes. For heavily soiled areas, a preliminary cleaning is required. Prepare a fresh solution at least daily or more often if solution becomes visibly dirty.

This product was evaluated and found to be effective in the presence of 5% blood serum at 1 1/4 oz. per gallon of water against the following viruses on hard, non-porous surfaces:

Avian influenza A/Turkey/Wisconsin virus – ATCC VR-798

Canine Distemper virus

Infectious Bovine Rhinotracheitis virus – IBR – ATCC VR188

Newcastle disease virus – ATCC VR109

Porcine Respiratory & Reproductive virus – PRRSV

Porcine Rotavirus

Pseudorabies virus – ATCC VR135

Transmissible Gastroenteritis virus – TGE

At 2 ounces per gallon of water use level, with treated surfaces remaining wet for 10 minutes, this product was evaluated and found to be effective against the following viruses on hard, non-porous surfaces:

- Avian influenza A virus – H5N1
- Canine Coronavirus

SITE PREPARATION: The first step in any on-going sanitation program must be the removal of gross contamination and debris. This can be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated thoroughly, clean all surfaces with soap or detergent and rinse with water.

APPLICATION: Remove all animals and feeds from areas to be treated, vehicles and enclosures. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with disinfecting or Virucidal* solution at 1 1/4 oz per gallon of water for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and -manure. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers and other equipment which can contact food or water with soap or detergent, and rinse with potable water before reuse.

VETERINARY CLINICS / ANIMAL LIFE SCIENCE LABORATORY / ANIMAL CARE FACILITIES / ANIMAL RESEARCH CENTERS/ANIMAL LABORATORY / ANIMAL QUARANTINE AREAS / ANIMAL BREEDING FACILITIES / ZOOS / PET SHOP / ANIMAL HUSBANDRY / KENNELS / BREEDING AND GROOMING ESTABLISHMENT / TACK SHOPS DISINFECTION

DIRECTIONS: For cleaning and disinfecting the following hard, non-porous surfaces: equipment not used for animal food or water, utensils, instruments, cages, kennels, stables, stalls and catteries. Remove all animals and feeds from areas to be treated, animal transportation vehicles, crates, etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 2 oz. per gallon of water for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, and scrapers used in removing litter and manure. Ventilate buildings and other closed spaces. Do not house animals or employ equipment until treatment has been ab-

sorbed, set or dried. Thoroughly scrub all treated feed racks, automatic feeders, waterers, and other equipment which dispenses food or water with soap or detergent, and rinse with potable water before reuse.

At 2 ounces per gallon of water in the presence of 400 ppm of hardness for a 10-minute contact time, this product was found to be effective against Hantavirus.

SPECIAL INSTRUCTIONS FOR CLEANING AND DISINFECTING AREAS WHICH MAY BE INFESTED WITH HANTAVIRUS

Infection with Hantavirus occurs by inhalation of infectious materials. CDC recommends that persons involved with cleanup wear coveralls, disposable, if possible, rubber boots or disposable shoe covers, rubber or plastic gloves, protective goggles, and a half mask air purifying, negative pressure respirator with a high efficiency particulate air (HEPA) filter or a powered air-purifying respirator (PAPR) with HEPA filter. Disinfect Personal Protective gear upon removal at the end of the day. If the coveralls are not disposable, they must be laundered on site. If no laundry facilities are available, the coveralls must be immersed in liquid disinfectant until they can be washed.

All potential infective waste material, including respirator filter, from cleanup operations that cannot be burned or deep buried on site must be double bagged in appropriate plastic bags. The bagged material must then be labeled as infectious, if it is to be transported, and disposed of in accordance with local requirements for infectious waste.

Rodent droppings and visible dust can be reservoirs for Hantavirus. If you are cleaning out a building that has been closed up, such as a cabin, shed or garage:

- Air out the building for at least 30 minutes by opening windows and doors.
- Leave the building while it is airing out.
- Do not vacuum, sweep or dust. This can spread the virus through the air.
- Thoroughly wet the contaminated areas with 2 ounces per gallon of water and allow solution to stand undisturbed for 10 minutes.
- Carefully remove contaminated material and dispose by burial or burning. Contact your local and state health department for additional disposal methods.
- Treat the surface again following the label directions and allow solution to stand undisturbed for 10 minutes.

RENDERING PLANT/DRESSING PLANT DISINFECTANT DIRECTIONS:

Cover or remove all food and packaging materials. Remove all gross soils. Disinfect equipment, walls and floors in poultry and animal dressing plants. Disinfect offal rooms, exterior walls and loading platforms of dressing plants. Saturate all surfaces with the use solution of 1 1/4 oz. per gallon of water. Scrub to loosen all soils. Allow to soak for 10 minutes and thoroughly rinse all wetted and cleaned surfaces with potable water.

RENDERING PLANT / DRESSING PLANT DISINFECTANT / FUNGICIDE / VIRUCIDE* DIRECTIONS:

Cover or remove all food packaging material before disinfection. Remove gross soils. Apply to equipment, walls and floors in poultry and animal dressing plants with a solution of 2 oz. per gallon of water. Surfaces must remain wet for 10 minutes then thoroughly rinsed with potable water before operations are resumed. Disinfect all rooms, exterior walls and loading platforms of dressing plants. Thoroughly rinse all wetted and cleaned surfaces which contact food with potable water before reuse.

TERRARIUM AND SMALL ANIMAL CAGE AND CAGE FURNITURE DISINFECTION

use on rocks and driftwood not allowed in California: Animals frequently defecate on hot rocks and other hard, non-porous cage furniture items inside your terrarium. This can result in high bacteria and ammonia levels that can lead to possible infection/disease in your animals. When used regularly this product can eliminate these high bacteria/ammonia levels in your cage and on your cage furniture items.

1. Remove all animals.
2. Thoroughly clean all surfaces and objects (hot rocks, caves, cage furniture, feeding and watering dishes, and appliances) including the substrate in the terrarium or cage with soap or detergent and rinse with water.
3. Saturate all surfaces (floors, walls, cages and other washable hard, non-porous environmental surfaces) with the disinfecting and virucidal* solution of 1 1/4 oz. per gallon of water for a period of 10 minutes. For smaller surfaces, use a trigger spray bottle to spray all surfaces with solution until wet. Then wipe surfaces dry.
4. Saturate gravel as above and let stand for 10 minutes. Place in bucket of clean water and swirl for 15-30 seconds. Thoroughly air dry before returning to terrarium.
5. Do not return animals to the habitat until it is dry and ventilated.
6. Thoroughly scrub all treated surfaces with soap or detergent and rinse with potable water before reuse.
7. Clean terrarium at least once weekly or more as needed.

Note: Do not apply this product directly onto the small animal. If this product comes into contact with the small animal's skin, then immediately wash the material off of the animal with lukewarm water. If the small animal ingests this product, contact your veterinarian immediately. Substrates for desert terrariums, i.e., gravel, must be completely dry before returning to terrarium to avoid high humidity levels. Always replace substrate if a foul odor persists.

FARM PREMISE DISINFECTION DIRECTIONS

FARM PREMISE DISINFECTION DIRECTIONS: Do not use in milking stalls, milking parlors or milk houses. Remove all animals and feed from areas to be treated, ve-

hicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, stables, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Apply a use solution of 2 oz. per gallon of water and allow surface to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

VEAL, CALVING, HOG, CATTLE AND HORSE OPERATIONS:

Between depopulations of facilities, cleaning and disinfection of pens, hutches, aisles and other environmental surfaces can be required. Empty all troughs, racks, and other feeding and watering appliances. Flush soils from these areas. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with disinfecting or Virucidal* solution at 2 oz. per gallon of water and allow to remain wet for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used in removing litter and manure. Ventilate buildings, cars, trucks, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent and rinse with potable water before reuse.

POULTRY AND SWINE PREMISE SANITATION

Site Preparation: The first step in any on-going sanitation program should be the removal of gross contamination and debris. This can be accomplished using a shovel, broom, or vacuum depending on the area to be disinfected. The efficacy of even the most efficient germicidal cleaner is reduced in the presence of heavy organic matter. Once the heavy debris is eliminated, thoroughly clean all surfaces with soap or detergent and rinse with water.

APPLICATION AND USE DILUTION ON POULTRY AND SWINE PREMISES:

Remove all animals and feeds from areas to be treated, trucks, cars, coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 2 ounces of this product per gallon of water. Saturate surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes, and other types of equipment

used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, troughs, automatic feeders, fountains and waterers and other equipment which can contact food or water with soap or detergent, and rinse with potable water before reuse.

DISINFECTION / FUNGICIDE / VIRUCIDE* OF POULTRY / TURKEY EQUIPMENT, SWINE QUARTERS, LIVESTOCK FARMS, EQUINE QUARTERS, ANIMAL QUARTERS AND KENNELS DIRECTIONS: Prior to disinfection, remove all poultry, other animals and their feed from areas to be treated, vehicles and enclosures. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other surfaces of facilities and fixtures occupied or traversed by poultry or other animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 2 ounces of this product per gallon of water (or equivalent use dilution). Saturate surfaces with the disinfecting solution for a period of 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. After application, ventilate buildings, coops and other closed spaces. Do not house poultry or other animals or employ equipment until treatment has been absorbed, set or dried. All treated equipment that will contact feed or drinking water must be thoroughly scrubbed with soap or detergent, then rinsed with potable water before reuse.

HATCHERIES: Use 2 oz. per gallon of water to treat the following hard, non-porous surfaces: hatchers, setters, trays, racks, egg flats, walls, floors, ceilings, chickboxes, egg cases, trash containers, carts, sexing tables, delivery trucks, vans and other hard non-porous surfaces. Leave all treated surfaces exposed to disinfectant solution for 10 minutes or more. Rinse surfaces with potable water before reuse. Allow surfaces to air dry.

VEHICLES: Clean all vehicles including mats, crates, cabs, and wheels with high-pressure water and this product. For sprayer applications, use a coarse spray device. Use 2 oz. per gallon of water to treat all vehicles. Leave all treated surfaces wet for 10 minutes or more and allow to air dry.

SPECIAL INSTRUCTIONS FOR INACTIVATING AVIAN INFLUENZA A H5N1 VIRUS: Remove all poultry and feeds from areas to be treated, trucks, coops, and crates. Remove all litter and droppings from floors, walls, and surfaces of facilities occupied or traversed by poultry. Empty all troughs, racks, and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with the disinfecting solution of 2 oz. per gallon of water for a period of 10 minutes. Immerse all halters,

ropes and other types of equipment used in handling and restraining animals as well as forks, shovels, scrapers used in removing litter and manure. Ventilate buildings, coops, and other closed spaces. Do not house poultry or employ equipment until treatment has been absorbed, set, or dried. Thoroughly scrub treated feed racks, troughs, automatic feeders, fountains, and waterers with soap or detergent, and rinse with potable water before reuse.

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES IN ANIMAL PREMISES

TO SANITIZE HOOF TRIMMING EQUIPMENT: Prior to application, pre-clean hoof trimming equipment and utensils before and after use on each animal with detergent and warm water or compatible cleaner to remove soil using a pre-scrape, pre-flush, or when necessary, pre-soak followed by a potable water rinse. To sanitize, prepare a 1 oz. of this product per 2 3/4 gallons of water (or equivalent use dilution) solution. Apply to pre-cleaned hard surfaces using a brush, cloth, mop, sponge or mechanical spray device or by immersion to thoroughly wet surfaces. Allow surfaces to remain wet for at least 3 minutes followed by adequate draining or air drying. Prepare fresh solution at least daily or when solution becomes visibly dirty.

SANITIZING HATCHERY ROOMS USING FOGGING DEVICES: Remove all animals and feed from areas to be treated, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of the room to be treated. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Close room off so fog is confined to room to be treated. Mix 2 gallons of this product to 2 1/2 gallons water. Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Insert the nozzle of the fogger through a suitable opening into the room. With the setting in maximum output, fog for one minute for each 4000 cubic feet of space in the room. Vacate the room of all personnel during fogging for a minimum of 2 hours of actual fogging and a minimum of 4 air exchanges per hour in the room. When fogging is completed ventilate buildings and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly clean all surfaces with soap or detergent and rinse with water.

SANITIZING INCUBATORS AND HATCHERS USING FOGGING DEVICES: Mix 24 ounces of this product to 122 ounces of water (or equivalent use dilution). Wear a dust mist respirator when mixing the use solution and pouring it into the fogging apparatus. Fog 3-8 ounces of this into setters and hatchers immediately after transfer. Repeat daily in setters and every 12 hours in hatchers. Discontinue hatcher treatments at least 24 hours prior to pulling the hatchers. Do not allow people to contact or breathe this fog. It is acceptable to fog setters and hatchers with 2 ounces per gallon of water solution of this product (or equivalent use dilution) on an hourly or

every other hour basis. If this is done, fog for 30-90 seconds once per hour or once every two hours. When fogging is complete, ventilate buildings, and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse. Only for treatment of setters and hatchers after poultry/chicks/eggs have been removed. Not for treatment of hatchers which contain chicks/eggs.

Note: The fog generated is irritating to the eyes, skin and mucous membranes. Under no circumstances must a room or building be entered by anyone within two hours of the actual fogging and a minimum of 4 air exchanges (ACH) per hour in the facility. If the building must be entered, then the individuals entering the building must wear a self-contained respirator approved by NIOSH/MSHA, goggles, long sleeves and long pants.

FOGGING IS TO BE USED AS AN ADJUNCT TO ACCEPTABLE MANUAL CLEANING AND DISINFECTING OF ROOM AND MACHINE SURFACES.

BARBER/SALON

DISINFECTION / FUNGICIDE / VIRUCIDE* FOR BARBER / SALON TOOLS DIRECTIONS: Immerse pre-cleaned barber/salon tools such as combs, brushes, plastic rollers, razors, clipper and trimmer blades, tweezers, manicure/pedicure tools, clippers, scissors and other hard, non-porous salon instruments and tools in a 2 oz. per gallon of water solution. Completely immerse instruments and tools for at least 10 minutes. Rinse thoroughly and dry before use. Prepare a fresh solution at least daily or more often if solution becomes visibly dirty.

DISINFECTING / FUNGICIDE / VIRUCIDE* GROOMING CLIPPERS: Remove hair, dandruff and dust particles prior to disinfecting the blades. Turn the clipper off occasionally during use and spray between the teeth of blades with a solution of 2 oz. per gallon of water. Allow surface to remain wet for at least 10 minutes. Rinse surfaces thoroughly. Then wipe dry with a clean soft cloth.

CLEANING HAIR CLIPPERS AND ELECTRIC SHEARS: While clipper/shear is running, hold in the downward position and spray 1 1/4 oz. per gallon of water solution of this product directly onto the blades two or three times to thoroughly wet the blades. Do not spray on the clipper case or drip into clipper housing. Turn off clipper/shear. Allow surface to remain wet for at least 10 minutes. Rinse surfaces thoroughly. Then wipe dry with a clean soft cloth. Lubricate as per clipper/shear manufacturer's instructions.

CLEANING BARBER / SALON SHEARS AND OTHER IMPLEMENTS: Spray shear/implement until thoroughly wet. Wipe away visible debris using a soft bristle brush or cloth. Turn off clipper/shear. Immerse pre-cleaned shear/implement into a container of a 1 1/4 oz. per gallon of water solution of this product for at least 10

minutes. Rinse surfaces thoroughly. Remove shear/ implement and wipe dry. Use fresh solution at least daily or when immersion tank solution becomes visibly dirty.

Note: Plastic instruments can remain immersed until ready to use. Stainless steel shears and other metal instruments must be removed after 10 minutes, rinsed, dried, and kept in a clean non-contaminated receptacle. Prolonged soaking will cause damage to metal instruments.

DISINFECTION / FUNGICIDE / VIRUCIDE* OF HARD, NON-POROUS SURFACES IN FOOTBATHS: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the footbath, drain the water and thoroughly clean all hard, non-porous surfaces with soap or detergent, then rinse with water. Saturate surfaces with a use solution of 2 oz. per gallon of water to exposed surfaces with a brush, cloth, mop, sponge or mechanical spray device. Brush or swab thoroughly and allow solution to stand for 10 minutes. For spray applications, use a coarse pump or trigger spray device. Do not breathe spray. After the unit has been thoroughly disinfected, rinse all cleaned surfaces with fresh water. Do not use equipment until treatment has been absorbed, set or dried.

RESTROOM/BATHROOM

NON-ACID TOILET BOWL, URINAL & BATHROOM DISINFECTANT / CLEANER DIRECTIONS

FROM CONCENTRATE: Remove gross filth prior to disinfection. Add 1 1/4 oz. of this product directly into the toilet bowl and mix. Brush thoroughly over exposed surfaces and under the rim with a brush, cloth, mop, sponge or mechanical spray device. Repeat and allow solution to stand for 10 minutes and flush.

FROM USE SOLUTION: Pre-clean surface. Empty water out of toilet bowl or urinal and apply a 2 oz. per gallon use solution to exposed surfaces including under the rim with a brush, cloth, mop, sponge or mechanical spray device. For sprayer application, use a coarse pump or trigger spray device. Brush or swab thoroughly and allow solution to stand for 10 minutes and flush. Refill toilet bowl or urinal with water.

FOR HEAVY DUTY CLEANING: Pre-clean surface. Empty toilet bowl or urinal of water and apply 8-12 ounces of use solution to exposed surfaces including under the rim with a brush, cloth, mop, sponge or mechanical spray device. Brush or swab thoroughly and allow solution to soak to aid in soil removal. For sprayer application, use a coarse spray device and swab all areas after spraying. Refill toilet bowl or urinal with water.

FOR USE TO CLEAN AND DISINFECT SHOWER ROOMS, LOCKER ROOMS AND OTHER LARGE OPEN AREAS WITH FLOOR DRAINS:

1. Pre-clean heavily soiled areas.
2. Apply use solution of 1 1/4 oz. of this product with one gallon of water to floors, walls and ceilings, making sure not to over spray. To disinfect, all surfaces must remain wet for 10 minutes. **Special**

instructions for foam guns: Pour concentrate into foam gun bottle and attach bottle to spray nozzle and ensure gun is attached to hose. **Note:** See foam gun instructions for more information. Make sure the setting is set for a 1:103 dilution. Once in place, squeeze the handle to disperse foam solution. To disinfect, all surfaces must remain wet for 10 minutes. *Foam guns not for use in California.*

3. Scrub surface using deck brush or other coarse material as necessary.
4. Rinse surfaces thoroughly and let air dry.

Note: Rinsing is not necessary unless floors are to be coated with finish or restorer. All food contact surfaces, such as appliances and kitchen countertops, must be rinsed with potable water. Do not use this product to clean or disinfect glassware, utensils, dishes or interior surfaces of appliances.

FUNGICIDAL / MOLD & MILDEW

FUNGICIDAL ACTIVITY: At 2 ounces per gallon use-level, (or equivalent use dilution) this product is effective against *Trichophyton mentagrophytes* – athlete's foot fungus, (a cause of Ringworm) and *Candida albicans* on inanimate, hard, non-porous surfaces in the presence of 5% blood serum and 400 ppm water hardness as CaCO₃ in locker rooms, dressing rooms, shower and bath areas, and exercise facilities. Pre-clean all surfaces prior to using this product. Treated surface must remain wet for 10 minutes. Allow solution to air dry on surface and repeat treatment every seven days or when new growth appears.

MOLD AND MILDEW CONTROL DIRECTIONS: This product controls the growth of mold and mildew, *Aspergillus niger* and their odors on hard, non-porous surfaces. To control the growth of mold and mildew and their odors on hard, non-porous surfaces, apply use solution of 1 1/4 oz. of this product per one gallon of water. Thoroughly wet all treated surfaces completely. Allow surface to remain wet for 10 minutes. Let surface air dry. Repeat application weekly or when growth or odor reappears.

TO CONTROL THE GROWTH OF MOLD AND MILDEW ON LARGE INFLATABLE NON-POROUS PLASTIC AND RUBBER STRUCTURES (animals, promotional items, moonwalks, slides, obstacle course play and exercise equipment): Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use solution of 1 1/4 oz. of this product per one gallon of water for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

TO CONTROL THE GROWTH OF MOLD AND MILDEW ON NON-POROUS ATHLETIC EQUIPMENT: For use on wrestling and gymnastic mats, athletic training tables, physical therapy tables, athletic helmets, wrestling/boxing headgear, athletic shoe soles. Thoroughly clean all surfaces with soap or detergent and rinse with

water. Saturate surfaces with a use solution of 1 1/4 oz. of this product per one gallon of water for a period of 10 minutes. Ventilate buildings and other closed spaces. Do not use equipment until treatment has been absorbed, set or dried.

HUMIDIFIER DIRECTIONS: Formulated for use in portable humidifiers. Thoroughly clean the hard, non-porous surfaces of the water tank and filters, before each heating season, or sooner if necessary. Add 2 oz. of this product per gallon of refill water. When you refill the tank, add 2 ounces of this product for every gallon of water added. Not for use in heat or atomizing type humidifiers.

DEODORIZATION

GENERAL DEODORIZATION: To deodorize, add 1 1/4 ounce of this product to 1 gallon of water (or equivalent use dilution). Excess liquid must be wiped up or allowed to air dry.

CLEANING / DEODORIZING DIRECTIONS: Add 1 1/4 ounce per gallon of water (or equivalent use dilution) to clean and deodorize windows, mirrors and other surfaces. Apply solution with a brush, mop, cloth, sponge or mechanical spray device so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray. Allow surface to air dry or wipe up excess liquid.

FOR DEODORIZING GARBAGE CANS, GARBAGE TRUCKS, INDUSTRIAL WASTE RECEPTACLES AND GARBAGE HANDLING EQUIPMENT: It is especially important to pre-clean for the product to perform properly. Use 1 1/4 ounce per gallon (or equivalent use dilution) of this product or other suitable detergent system for pre-cleaning step. Then, apply a wetting concentration of 6 ounces of this product per gallon of water (or equivalent use dilution).

FOR DEODORIZING SEPTIC STORAGE TANKS: Pre-clean heavily soiled areas. When tanks are empty, pour 1 1/4 oz. per gallon of water (or equivalent use dilution) into septic storage tank on recreational vehicles, campers and boats to control odors. As tank fills with sewage and the vehicle is moving, this solution will mix and provide an adequate deodorizing solution for this use. This product is to be used on gray and black water tanks only. Check with local, state, or federal authorities before disposing of sewage in accordance to federal, state and local regulations for waste disposal.

AIR FRESHENER / AUTOMOTIVE USES: Effective on smoking and food odors (garlic, fish, onions, etc.), automobile odors from tobacco, musty carpet smell, and beverage smells will be eliminated. A solution of 1 1/4 oz. per gallon of water (or equivalent use dilution) will effectively neutralize odors. Spray or apply onto seats, carpets, headliner and ashtray or into trunk and all vents to eliminate odors from tobacco, food, beverage spills and musty carpet. For sprayer applications, use a coarse spray device. Allow to air dry.

RV HOLDING TANKS / RECREATIONAL VEHICLES:

For toilet waste and holding tanks, cover bottom of holding tank with water and 1 1/4 to 2 ounces per gallon of water to deodorize. If odors return before time to empty, add 1 1/4 to 2 ounces to the tank. For kitchen waste, add 1 1/4 to 2 ounces to gray water tank as needed to control malodors created by dirty dishwater.

FOR ODORS CAUSED BY DOGS, CATS AND OTHER DOMESTIC ANIMALS: Use on rugs, floors, walls, tile, cages, crates, mats, litter boxes, floor coverings, or any surface soiled by a pet. Test a small inconspicuous area first. Blot problem area. Then follow directions for "General Deodorization".

GLASS CLEANING/DEODORIZING DIRECTIONS: Use 1 1/4 ounce per gallon solution (or equivalent use dilution) to clean and deodorize windows, mirrors, and glass surfaces. Use a coarse spray device. Spray 6-8 inches from surface. Rub with sponge or cloth. Do not breathe spray.

WATERBED CONDITIONER: When used as a waterbed conditioner, this product eliminates the odor caused by bacteria. Prevents bubbles, preserves plasticizers, conditions vinyl interior, sequesters minerals.

If bed has not been treated properly, drain bed completely. Add 15 gallons of water, mix vigorously, drain bed again. Fill bed with water and follow dosage directions.

Dosage: To eliminate the odor caused by bacteria, add 10 fluid ounces in a free flow waterbed of 90 to 180 gallon capacity. Add 10 fluid ounces in a waveless/fiber waterbed mattress of 90 to 180 gallon capacity. Repeat application every 4 to 6 months.

WATER/SMOKE DAMAGE RESTORATION

Effective against odor caused by water and/or smoke for home, institutional, industrial and hospital use. This product is particularly suitable for use in water damage restoration situations against odor caused by water on the following porous and semi-porous materials: carpets, carpet cushion, sub floors, drywall, trim, frame lumber, tackless strip and paneling. Saturate affected materials with enough product to remain wet for at least 10 minutes. Use proper ventilation.

SEWER BACKUP & RIVER FLOODING: To rid affected area of odors caused by sewer backup and river flooding, dilute 2 to 4 ounces of this product per gallon of water allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil along with non-salvageable materials. Saturate all affective areas with a sprayer using a coarse spray tip, before and after cleaning and extraction.

CARPETS, CARPET CUSHIONS AND OTHER POROUS MATERIALS SUCH AS SUB FLOORS, DRY-WALL, TRIM AND FRAME LUMBER, TACKLESS STRIP AND PANELING: Effective against odor caused by water damage. For water damage from a clean water source, extract excess water. Test hidden area for colorfastness. Dilute 2 to 4 ounces of the product per gallon

of water, allowing for the diluting effect of absorbed water within saturated materials. Remove gross filth or heavy soil. Apply directly with a sprayer using a coarse spray tip, to fully saturate affected materials. Roll, brush or agitate into materials and allow the materials to remain damp for 10 minutes. Follow with a thorough extraction. Dry rapidly and thoroughly.

SPECIAL INSTRUCTIONS FOR CLEANING CARPET AGAINST ODORS CAUSED BY BACTERIA: This product can be used to deodorize carpets in industrial and institutional, commercial and residential areas such as homes, motel & hotel chains, nursing homes, schools and hospitals. For use on wet, cleanable synthetic fibers. Do not use on wool. Vacuum carpet thoroughly prior to cleaning. Test fabric for colorfastness.

For Portable Extraction Units: Mix 2 ounces of this product per gallon of water (or equivalent use dilution).

For Truck Mounted Extraction Machines: Mix 24 ounces of the product per gallon of water and meter at 4 gallons per hour.

For Rotary Floor Machines: Mix 4 ounces of this product per gallon of water and apply at the rate of 300-500 sq. ft. per gallon.

Do not mix this product with other cleaning products. Follow the cleaning procedures specified by the manufacturer of the cleaning equipment. After using this product, set the carpet pile and protect the carpet from furniture legs and bases while drying. Do not over wet. If applied to stain resistant nylon carpet, apply a fabric protector according to the carpet manufacturer's directions.

CARPET CLEANING / DEODORIZER AGAINST ODOR CAUSED BY BACTERIA, FOR HOME, INSTITUTIONAL, INDUSTRIAL AND HOSPITAL USE: This product cleans and deodorizes the carpet by eliminating odors caused by bacteria. It can be used in industrial and institutional, commercial and residential areas such as homes, motels, hotel chains, nursing homes and hospitals.

Vacuum carpet thoroughly prior to application. Mix 2 ounces of product per gallon of water (or equivalent use dilution). Follow the injection and/or extraction procedures as specified for any conventional steam cleaning equipment you are using. For rotary floor machines, mix 16 ounces per gallon of water and spray on carpet at a rate of 300-500 sq. ft. per gallon.

For use on washable synthetic fibers. Do not use on wool. Test colorfastness of carpet before use. Apply diluted product to a small, concealed spot, then rub with a clean white cloth. If color changes or transfers to the cloth, a water-based product must not be used.

After using the product, set carpet pile in one direction with a stiff brush. Place aluminum foil under the legs of furniture while carpet is drying. Over-wetting can cause carpet to shrink. Manufacturer assumes no responsibility for over-wetting misuse.

Note: This product must not be mixed with other cleaning products.

OTHER USES

DISINFECTION / FUNGICIDE/VIRUCIDE* OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS:

After using the whirlpool unit, drain and refill with fresh water to just cover the intake valve. Add 2 oz. per gallon of water. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 10 minutes. After the unit has been thoroughly disinfected, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units.

CLEANSING OF BODY SURFACES AND BODY ORIFICES OF HUMAN REMAINS:

To cleanse away skin secretions and accompanying malodor, to insure the removal of all soil and bloodstains, and to remove and reduce surface contamination, apply 2 ounces of this product to 1 gallon of water to the surfaces and body openings, natural or artificial. Bathe the entire body using sponge or washcloth. A soft brush may be employed on surfaces other than the face. Allow a 10-minute contact time for optimal results. Prepare a fresh solution for application of each remains.

FOR USE ON FINISHED FLOORS: To limit gloss reduction, use this product at 1 1/4 oz per gallon of water use dilution (or equivalent use dilution). Apply with a damp mop or auto scrubber. Allow to air dry.

COMMERCIAL FLORIST USE DIRECTIONS: To clean, disinfect and deodorize hard, non-porous surfaces in one step, prepare use solution by mixing 2 oz. per gallon of water. For heavy-duty use, mix 8 ounces per gallon of water.

Remove all leaves, petals, garbage and refuse. Pre-clean surfaces using pressurized water where possible. Apply use solution to hard, non-porous surfaces, thoroughly wetting surfaces as required, with a cloth, mop, brush, sponge or mechanical spray device.

For heavily soiled areas, a preliminary cleaning is required.

For sprayer applications, use a coarse pump or trigger spray device. Spray 6-8 inches from surface. Rub with brush, sponge, mop or cloth. Do not breathe spray.

Treated surfaces must remain wet for 10 minutes. Allow to air dry.

Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

CITRUS CANKER CONTROL AND CONTROL OF BACTERIA SPOT OF TOMATOES: *Not applicable in California:* For prevention of Citrus Canker and Bacterial Spot of Tomatoes Diseases through treatment of equipment. Effective against *Xanthomonas axonopodis pv. citri* (Citrus Canker) and *Xanthomonas campestris pv. vesicatoria* (bacteria spot of tomatoes) at 2060 ppm ac-

tive quat. Treat all trucks, vehicles, and equipment thoroughly at a dilution ratio of 1:27. Treatment can be applied to trucks, attached trailers, field harvesting equipment, including cargo area, wheels, tires, under carriage, hood, roof, fenders and any other part of transportation equipment that can be taken into infested areas. To prevent the spread of Citrus Canker by this artificial means of transportation, treatments are made by trigger spraying, dipping or brushing, using maximum rate 2060 ppm quat. For sprayer applications use a coarse spray device. After use, all surfaces which come in contact with food or crop must be rinsed with potable water. Clothing must be either thoroughly rinsed or laundered before reuse. Footwear must be rinsed before reuse.

DIRECTIONS FOR HOUSEHOLD USE

KITCHEN/BATHROOM/HOUSEHOLD CLEANING: Apply 2 oz. per gallon of water solution with a brush, cloth, sponge, mop or directly on surface with a mechanical spray device. If a mechanical spray is used spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Wipe the soiled area clean. This product is not to be used on dishware, glasses or eating utensils.

DISINFECT/DEODORIZE: To disinfect hard, non-porous surfaces such as floors, walls, counters, sinks, tubs, toilets, glazed tile, exterior surfaces of appliances, refrigerators or freezers, microwave exteriors, stove tops and hoods, tables, garbage pails, and faucets apply 2 oz. per gallon of water with cloth, sponge, mop or mechanical spray device. If a mechanical spray is used, spray must be coarse. Hold container 6 inches to 8 inches from surface and spray until thoroughly wet. Treated surface must remain wet for 10 minutes before wiping. For heavily soiled areas a pre-cleaning step is required. The pre-cleaning step must be done according to the instructions under Kitchen / Bathroom / Household Cleaning. Rinse with potable water after use on surfaces that come in contact with food.

SANITIZER DIRECTIONS FOR NON-FOOD CONTACT SURFACES

SANITIZATION OF HARD, NON-POROUS SURFACES IN WHIRLPOOL UNITS: To remove body oils, dead tissue, soil and all other buildups or organic matter on inanimate surfaces after using the whirlpool unit, drain the water and refill with fresh water to just cover the intake valve. Add 1 oz per 2 3/4 gallons of water (or equivalent use dilution) solution in the unit at this point. Briefly start the pump to circulate the solution. Turn off the pump. Wash down the unit sides, seat of the chair lift and any/all related equipment with a clean swab, brush or sponge. Treated surfaces must remain wet for 3 minutes. After the unit has been thoroughly sanitized, drain the solution from the unit and rinse any/all cleaned surfaces with fresh water. Repeat for heavy soiled units. The unit is ready for reuse.

SANITIZATION OF EXTERIOR HOUSEHOLD SURFACES DIRECTIONS

Preparation of Use Solution: Add 1 oz per 2 3/4 gallons of water (or equivalent use dilution) to sanitize hard, non-porous exterior surfaces such as vinyl, plastic, sealed concrete, painted or sealed woodwork, and sealed stucco. Surfaces to be treated include house siding, decks, patios, walkways and driveways.

Application: Preclean surfaces. Apply solution with a brush, mop, cloth, sponge, mechanical spray device, or with a low-pressure (less than 60 psi) airless sprayer so as to wet all surfaces thoroughly. Treated surfaces must remain wet for 3 minutes. For sprayer applications, use a coarse spray device. Wearing suitable respiratory protective equipment and protective eyewear to control exposure to spray, pressure wash surfaces to thoroughly clean all treated areas using a high-pressure spray. Do not breathe spray. One-half gallon of diluted product will treat 200-300 sq ft of surface. User must wear protective eyewear as well as respiratory protective equipment.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage and disposal.

Pesticide Storage: Open dumping is prohibited. Store only in original container. Do not reuse empty container. If a leaky container must be contained within another, mark the outer container to identify the contents. Store pesticides away from food, pet food, feed, seed, fertilizers and veterinary supplies. Keep this product under locked storage sufficient to make it inaccessible to children or persons unfamiliar with its proper use.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Handling Disposal: Non-refillable container. Do not reuse this container to hold materials other than pesticides or diluted pesticides. Triple rinse (or equivalent). After emptying and cleaning, it may be allowable to temporarily hold rinsate or other pesticide-related materials in the container. Contact your state regulatory agency to determine allowable practices in your state. Offer for recycling if available or puncture and dispose in a sanitary landfill, or by other procedures approved by state and local authorities. If rinsate cannot be used, follow pesticide disposal instructions. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state and federal regulations.

Residue Removal Instructions: Triple rinse (or equivalent) container promptly after emptying. Triple rinse as follows: Fill the container 1/4 full with water and recap. Shake for 10 seconds. Follow Pesticide Disposal instructions for rinsate disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.



Nisus Corporation
100 Nisus Drive • Rockford, TN 37853 USA
800-264-0870

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SAFETY DATA SHEET



Health Emergencies: INFOTRAC® (800) 535-5053

1. PRODUCT AND COMPANY INFORMATION

Product Identity: Nisus DSV™
Recommended use: Disinfectant, virucide, sanitizer.
Manufacturer: Nisus Corporation
 100 Nisus Drive
 Rockford, TN 37853
Telephone: Phone: (800) 264-0870
 Fax: (865) 577-5825
Emergency Phone: 800-535-5053 (INFOTRAC)
SDS Date of Preparation: 01/12/16

2. HAZARDS IDENTIFICATION

GHS Classification:

Skin corrosion/irritation	Category 1
Serious eye damage/eye irritation	Category 1

GHS Label Elements:



Signal Word: Danger

Statements of Hazard

Causes severe burns and eye damage.

Precautionary Statements

Do not breathe dust/fume/gas/mist/vapors/spray.
 Wash face, hands and any exposed skin thoroughly after handling.
 Wear protective gloves/protective clothing/eye protection/face protection.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Component	CAS No.	Amount
Alkyl (C ₁₂ -C ₁₆) dimethyl benzyl ammonium chloride	CAS 68424-85-1	2.200%
Octyl decyl dimethyl ammonium chloride	CAS 32426-11-2	1.650%
Diocetyl dimethyl ammonium chloride	CAS 5538-94-3	0.825%
Didecyl dimethyl ammonium chloride	CAS 7173-51-5	0.825%
Ethanol	CAS 64-17-5	<1%

4. FIRST AID MEASURES

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a poison center or doctor/physician. Wash contaminated clothing before reuse.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a poison center or doctor/physician.

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a poison center or doctor/physician.

Most important Symptoms: Causes severe skin burns and eye damage.

Indication of immediate medical attention/special treatment: Note to Physician: Treat symptomatically

5. FIRE FIGHTING MEASURES

Suitable (and Unsuitable) Extinguishing Media: Dry chemical. Foam. Carbon dioxide (CO₂). Water spray (fog). Do not use water jet.
Specific hazards arising from the chemical: Not determined.
Hazardous Combustion Products: Toxic gases may be formed by fire.

Special Protective Equipment and Precautions for Fire-Fighting Instructions: As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions and Protective Equipment: Isolate hazard area and restrict access. Eliminate all ignition sources. Ventilate affected area. Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information.

Methods and Materials for Containment and Cleaning Up: Prevent further leakage or spillage if safe to do so. A vapor suppressing foam may be used to reduce vapors. Spill area may be slippery. Absorb or cover with dry earth, sand, or other non-combustible material and transfer to containers. Use clean non-sparking tools to collect absorbed material. Dispose of contents/container to an approved waste disposal plant.

7. HANDLING AND STORAGE

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety practice. Do not breathe dust/fume/gas/mist/vapors/spray. Wash face, hands, and any exposed skin thoroughly after handling. Wear protective gloves/protective clothing and eye/face protection.

Nonrefillable container. Do not reuse containers. Product residues in empty containers can be hazardous. Follow all SDS precautions when handling empty containers.

Conditions for Safe Storage, Including Any Incompatibilities:

Keep container tightly closed and store in a cool, dry and well-ventilated place. Store locked up. Strong oxidizers. Reducing agents

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Guidelines:

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Proprietary Alcohol	STEL: 1000 ppm	TWA: 1000 ppm TWA: 1900 mg/m ³ (vacated) TWA: 1000 ppm (vacated) TWA: 1900 mg/m ³	IDLH: 3300 ppm TWA: 1000 ppm TWA: 1900 mg/m ³

Engineering Controls: Use explosion proof equipment. Mechanical Exhaust. Showers. Eyewash stations.

Eye/Face Protection: Splash proof chemical safety goggles. Face shield. Refer to 29 CFR 1910.133 for eye and face protection regulations.

Skin and Body Protection: Wear rubber or neoprene gloves. Impervious apron. Refer to 29 CFR 1910.138 for appropriate skin and body protection.

Respiratory Protection: No protective equipment is needed under normal use conditions. Refer to 29 CFR 1910.134 for respiratory protection requirements.

General Hygiene Considerations: Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Liquid

Appearance: Colorless to light straw liquid

Odor: Benzaldehyde

Odor Threshold: Not determined

pH: 12.4

Melting Point/Freezing Point: Not determined

Boiling Point/Boiling Range: Not determined

Flash Point: >94°C / 201°F

Evaporation Rate: Not determined

Flammability (Solid, Gas): Not determined

Upper Flammability Limits: Not determined

Lower Flammability Limit: Not determined

Vapor Pressure: Not determined

Vapor Density: Not determined

Specific Gravity: Not determined

Water Solubility: Soluble in water

Solubility in other solvents: Not determined

Partition Coefficient: Not determined

Auto-ignition Temperature: Not determined

Decomposition Temperature: Not determined

Kinematic Viscosity: Not determined

Dynamic Viscosity: Not determined

Explosive Properties: Not determined

Oxidizing Properties: Not determined

Density: 8.4 lbs/gal (Water=1)

10. STABILITY AND REACTIVITY

Reactivity: Not reactive under normal conditions.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.

Hazardous polymerization does not occur.

Conditions to Avoid: Heat, flames and sparks.

Incompatible Materials: Strong oxidizers. Reducing agents.

Hazardous Decomposition Products: Hydrogen chloride. Carbon oxides. Nitrogen oxides (NOx).

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Eye Contact: Causes severe eye damage.

Skin Contact: Causes severe skin burns.

Inhalation: Do not inhale.

Ingestion: Do not ingest.

Component information:

Chemical Name	Oral LD ₅₀	Dermal LD ₅₀	Inhalation LC ₅₀
Proprietary Chloride	= 426 mg/kg (Rat)	-	-
Proprietary Alcohol	= 7060 mg/kg (Rat)	-	= 124.7 mg/L (Rat) 4h
Proprietary Chloride	= 84 mg/kg (Rat)	-	-

Information on physical, chemical and toxicological effects

Symptoms: Please see Section 4 of this SDS for symptoms.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Carcinogenicity: Ethanol has been shown to be carcinogenic in long-term studies only when consumed as an alcoholic beverage.

Chemical Name	ACGIH	IARC	NTP	OSHA
Proprietary Alcohol	A3	Group 1	Known	X

Legend:

ACGIH (American Conference of Government Industrial Hygienists)

A3 - Animal Carcinogen

IARC (International Agency for Research on Cancer)

Group 1 - Carcinogenic to Humans

NTP (National Toxicology Program)

Known - Known Carcinogen

OSHA (Occupational Safety and Health Administration of the US Department of Labor)

X - Present

Numerical measures of toxicity: Not determined

12. ECOLOGICAL INFORMATION

Ecotoxicity: This product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.

Chemical Name: Proprietary Alcohol

Fish: 12.0 - 16.0: 96 h *Oncorhynchus mykiss* mL/L LC₅₀ static 13400 - 15100: 96 h *Pimephales promelas* mg/L LC₅₀ flow-through 100: 96 h *Pimephales promelas* mg/L LC₅₀ static

Toxicity to microorganisms: EC₅₀ = 34634 mg/L 30 min, EC₅₀ = 35470 mg/L 5 min

Crustacea: 9268 - 14221: 48 h *Daphnia magna* mg/L LC₅₀ 2: 48 h *Daphnia magna* mg/L EC₅₀ Static 10800: 24 h *Daphnia magna* mg/L EC₅₀

Persistence and Degradability: Not determined.

Bioaccumulative: Not determined.

Mobility: Not determined.

Chemical Name	Partition Coefficient
Proprietary Alcohol	-0.32

Other Adverse Effects: Not determined.

13. DISPOSAL CONSIDERATIONS

Waste Treatment Methods

Disposal of Wastes: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Contaminated Packaging: Disposal should be in accordance with applicable regional, national and local laws and regulations.

Chemical Name	California Hazardous Waste Status
Proprietary Alcohol	Toxic, ignitable

14. TRANSPORTATION INFORMATION

Note: Please see current shipping paper for most up-to-date shipping information, including exemptions and special circumstances.

DOT: Not regulated.

IATA: Not regulated.

IMOG: Not regulated.

15. REGULATORY INFORMATION

International Inventories:

Chemical Name	Proprietary Chloride	Proprietary Chloride	Proprietary Alcohol	Proprietary Chloride
TSCA	Present	Present	Present	Present
DSL	X	X	X	X
NDSL				
EINECS	Present	Present	Present	Present
ELINCS				
ENCS	Present		Present	Present
IECSC	X	X	X	X
KECL	Present	Present	Present	Present
PICCS	X	X	X	X
AICS	X		X	X