



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 APPLICATIONS

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 VARIED): 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: $\pi \times \text{radius}^2 \text{ of the conduit} \times \text{length of the conduit}$. 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 INGREDIENTS | 99.95% |
| TOTAL | 100.00% |

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.

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ONLY Call 24 Hours A Day 1-800-334-7577
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Net Weight
1 Pound

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PRECAUTIONARY STATEMENTS ENVIRONMENTAL HAZARDS

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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

04494112F 160805AV1a

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



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 |



DELTAJUST® INSECTICIDE

Version 4.0 / USA
102000004846

2/11
Revision Date: 10/06/2015
Print Date: 10/07/2015

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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Version 4.0 / USA
102000004846

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Revision Date: 10/06/2015
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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.

**DELTADUST® INSECTICIDE**Version 4.0 / USA
102000048464/11
Revision Date: 10/06/2015
Print Date: 10/07/2015**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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| | |
|---|-------------------|
| Evapouration 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 | |

**DELTADUST® INSECTICIDE**Version 4.0 / USA
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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. |

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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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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

SAFETY DATA SHEET



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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

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