DeltaDust Insecticide

- PROVIDES QUICK CONTROL OF ANTS, BEES, COCKROACHES, FLEAS, SILVERFISH, TICKS, AND NUMEROUS STORED PRODUCT PESTS.
- KILLS 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:**

<table>
<thead>
<tr>
<th>Ingredient</th>
<th>Percentage</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deltamethrin</td>
<td>0.05%</td>
</tr>
<tr>
<td>OTHER INGREDIENTS</td>
<td>99.95%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

EPA Reg. No. 432-772          EPA Estab. No. 432-TX-1

PRECAUCION AL USARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta le haya sido explicado ampliamente.

(TO THE USER: IF you cannot read English, do not use this product until the label has been fully explained to you.)

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**FIRST AID**

| IF ON SKIN: | Wash with plenty of soap and water. Get medical attention if irritation persists. |

In case of medical emergencies or health and safety inquiries or in case of fire, leaking or damage containers, call 1-800-334-7577.

For product information Call Toll-Free: 1-800-331-2867

See Side Panel For Additional Precautionary Statements

NET CONTENTS: 1 and 5 pound

**PRECAUTIONARY STATEMENTS**

**Hazards To Humans & Domestic Animals**

**CAUTION**

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

**Environmental Hazards**

This product is extremely 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. Use with care when applying in areas adjacent to any body of water. Do not contaminate water when disposing of equipment washwater.
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.

STORAGE AND DISPOSAL

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

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 Disposal: Triple rinse (or equivalent) then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other approved State and local procedures.

Container Disposal: (For Homeowner) Do not reuse empty containers. 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 of 1-800-CLEANUP for disposal instructions. Never place unused product down an indoor or outdoor drain.

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 or parks, or on golf courses or lawns and grounds.

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

DeltaDust 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 but are not limited to:

*aircraft
*animal quarters/kennels
*apartment buildings
*bakeries
*breweries
*buses
*Canneries
*cafeterias
*dairies
*food/feed manufacturing, processing and service establishments
*greenhouses (non-commercial)
*grocery stores and supermarkets
*hospitals
*hotels/motels
*houses
*industrial buildings and installations
*laboratories
*mausoleums
*meat slaughtering and packing plants
*mobile homes and recreational vehicles
*nursing homes/day care centers
*rail cars
*restaurants
*schools
*sewers and underground tunnels
*stores and institutions
*supermarkets
*telecommunication conduits
*theaters
*trucks and trailers
*utility vaults and conduits
*vessels
*warehouses
*zoos
DeltaDust is intended for applications with 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 per square yard (or 0.5 lbs per 1000 square feet).

INDOOR USE

FOOD/FEED HANDLING ESTABLISHMENT APPLICATIONS

DeltaDust 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, Crack and Crevice Application: Spot and/or 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 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 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 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 should be avoided. DeltaDust 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. Dust applications should be made in a manner to avoid deposits in exposed surfaces introducing the material in the air.

CENTIPEDES, GROUND BEETLES, MILLIPEDES, SCorpIONS, SPIDERs AND SOWBUGS: Apply DeltaDust along and behind baseboards, to window and door frames, corners, pipes, storage locations, attics, crawl spaces, and other areas which 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 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.
BEDBUGS: Apply DeltaDust thoroughly to all areas where these pests are typically found including: folds and tufts of mattresses, coils of springs, cracks and hollow posts of bedframes, 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 PANTRY & PRODUCT PESTS: To aid in the control of the exposed stages of:

<table>
<thead>
<tr>
<th>Pest</th>
<th>Control Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>cadelle arms</td>
<td>merchant grain beetles</td>
</tr>
<tr>
<td>cheese mites</td>
<td>red flour beetles</td>
</tr>
<tr>
<td>cigarette beetles</td>
<td>rice weevils</td>
</tr>
<tr>
<td>confused flour beetles</td>
<td>rusty grain beetles</td>
</tr>
<tr>
<td>dark meal worms</td>
<td>saw-toothed grain beetles</td>
</tr>
<tr>
<td>dermestid</td>
<td>spider beetles</td>
</tr>
<tr>
<td>drugstore beetles</td>
<td>tobacco moths</td>
</tr>
<tr>
<td>grain mites</td>
<td>yellow meal worms</td>
</tr>
<tr>
<td>granary weevils</td>
<td>Warehouse Moths</td>
</tr>
<tr>
<td>lesser grain borers</td>
<td>Indian meal</td>
</tr>
<tr>
<td>lesser mealworm</td>
<td>Mediterranean Flour</td>
</tr>
</tbody>
</table>

II. FOOD PROCESSING PESTS
(Same crawling & flying pests as in pantry & stored product pests INDOOR) 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:

<table>
<thead>
<tr>
<th>Pest</th>
<th>Control Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>aphids</td>
<td>Leafrollers</td>
</tr>
<tr>
<td>beet armyworms</td>
<td>orange tortrix</td>
</tr>
<tr>
<td>blister beetles</td>
<td>periodical cicada</td>
</tr>
<tr>
<td>boxelder bugs</td>
<td>plant bugs</td>
</tr>
<tr>
<td>certain leafminers (Boxwood, Holly, Oak, Spruce Needle)</td>
<td>rose chafer</td>
</tr>
<tr>
<td>elm leaf beetle</td>
<td>rose slugs</td>
</tr>
<tr>
<td>flea beetles</td>
<td>tent caterpillars</td>
</tr>
<tr>
<td>Japanese beetle</td>
<td>Thrips</td>
</tr>
<tr>
<td>leafhoppers</td>
<td>Weevils</td>
</tr>
</tbody>
</table>

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 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 to provide quick knockdown 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 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 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: \( P \times \text{radius}^2 \times \text{length of the conduit} \). NOTE: \( \text{radius} = \text{one-half the diameter} \). Example: 500 linear feet of a 4’ (12” = 1 foot; therefore, 0.33 ft) conduit = 3.14 x (0.17 ft x 0.17 ft) x 500 ft = 45.39 cubic feet].
DeltaDust 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 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 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.
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 should be followed carefully. However, because of manner of use and other factors beyond Bayer Environmental Science’s control, it is impossible for Bayer Environmental Science to eliminate all risks associated with the use of this product. As a result, crop injury or ineffectiveness is always possible. All such risks shall be assumed by the user or buyer.

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Bayer Environmental Science
A Business Group of Bayer CropScience LP
PO Box 12014  2 T. W. Alexander Drive
Research Triangle Park, NC 27709

04-29-05, Notification 06-16-05
SECTION 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product identifier

Trade name: Deltadust® Insecticide

Product code (UVP): 05952247
SDS Number: 10200004846
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

<table>
<thead>
<tr>
<th>Hazardous Component Name</th>
<th>CAS-No.</th>
<th>Concentration % by weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deltamethrin</td>
<td>52918-63-5</td>
<td>0.05</td>
</tr>
<tr>
<td>Crystalline quartz (respirable)</td>
<td>14808-60-7</td>
<td>2.50</td>
</tr>
<tr>
<td>Calcium carbonate</td>
<td>1317-65-3</td>
<td>95.4</td>
</tr>
</tbody>
</table>
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
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.
## SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

<table>
<thead>
<tr>
<th>Components</th>
<th>CAS-No.</th>
<th>Control parameters</th>
<th>Update</th>
<th>Basis</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deltamethrin</td>
<td>52918-63-5</td>
<td>0.02 mg/m3 (TWA)</td>
<td></td>
<td>OES BCS*</td>
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<tr>
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<td>14808-60-7</td>
<td>0.025 mg/m3 (TWA)</td>
<td>02 2012</td>
<td>ACGIH</td>
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<tr>
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<td>0.05 mg/m3 (REL)</td>
<td>2010</td>
<td>NIOSH</td>
</tr>
<tr>
<td>Crystalline quartz (respirable) (Respirable dust.)</td>
<td>14808-60-7</td>
<td>0.1 mg/m3 (TWA)</td>
<td>1989</td>
<td>OSHA Z1A</td>
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<tr>
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<td>14808-60-7</td>
<td>0.1 mg/m3 (TWA)</td>
<td>06 2008</td>
<td>TN OEL</td>
</tr>
<tr>
<td>Crystalline quartz (respirable)</td>
<td>14808-60-7</td>
<td>0.27ug/m3 (AN ESL)</td>
<td>03 2014</td>
<td>TX ESL</td>
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<tr>
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<td>03 2014</td>
<td>TX ESL</td>
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<tr>
<td>Crystalline quartz (respirable) (Respirable dust.)</td>
<td>14808-60-7</td>
<td>0.1 mg/m3 (TWA PEL)</td>
<td>08 2010</td>
<td>US CA OEL</td>
</tr>
<tr>
<td>Crystalline quartz (respirable) (Total dust.)</td>
<td>14808-60-7</td>
<td>0.3 mg/m3 (TWA PEL)</td>
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<td>US CA OEL</td>
</tr>
<tr>
<td>Crystalline quartz (respirable) (Respirable)</td>
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<td>0.1 mg/m3 (TWA)</td>
<td>2000</td>
<td>Z3</td>
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<tr>
<td>Crystalline quartz (respirable) (Total dust.)</td>
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<td>0.3 mg/m3 (TWA)</td>
<td>2000</td>
<td>Z3</td>
</tr>
<tr>
<td>Crystalline quartz (respirable) (Total dust.)</td>
<td>14808-60-7</td>
<td>2.4millions of particles per cubic foot of air (TWA)</td>
<td>2000</td>
<td>Z3</td>
</tr>
<tr>
<td>Calcium carbonate (Respirable.)</td>
<td>1317-65-3</td>
<td>5 mg/m3 (REL)</td>
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<td>NIOSH</td>
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<tr>
<td>Calcium carbonate (Total)</td>
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<td>10 mg/m3 (REL)</td>
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<td>NIOSH</td>
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<td>Calcium carbonate (Respirable fraction.)</td>
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<td>5 mg/m3 (PEL)</td>
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<td>5 mg/m3</td>
<td>1989</td>
<td>OSHA Z1A</td>
</tr>
</tbody>
</table>
(Respirable fraction.) | (TWA) | Date | Agency |
---|---|---|---|
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 | 5 ug/m³ (AN ESL) | 03 2014 | TX ESL |
Calcium carbonate | 1317-65-3 | 50 ug/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/ft³ (loose)
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
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.
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.
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.
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
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

  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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