

Tri-Die®

Silica & Pyrethrin Dust

KILLS: Ants, Bed Bugs, Bees, Booklice, Boxelder Bugs, Carpet Beetles, Carpenter Ants, Clover Mites, Cluster Flies, Crickets, Cockroaches, Drywood Termites, Earwigs, Elm Leaf Beetles, Firebrats, Fleas, Ground Beetles, Lice, Millipedes, Pillbugs, Scorpions, Silverfish, Sowbugs, Spiders, Stored Product Pests, Powder Post Beetles, Ticks and Wasps

FOR USE IN AND AROUND: Apartments, Campgrounds, Food Handling Establishments (including Food Processing Plants, Food Storage Areas, Meat and Poultry Processing Plants, Restaurants and USDA Inspected Facilities), Homes, Hospitals, Hotels, Institutions, Motels, Nursing Homes, Office Buildings, Resorts, Schools†, Supermarkets, Transportation Equipment (Buses, Boats, Ships, Trains, Trucks, Planes†), Utilities, Warehouses, and other Commercial and Industrial Buildings

† See use restrictions for these sites under the Directions for Use.

ACTIVE INGREDIENTS:

Pyrethrins, a botanical insecticide	1.0%
Piperonyl Butoxide*	10.0%
Amorphous Silica	40.0%

OTHER INGREDIENTS: 49.0%

TOTAL: 100.0%

Contains Petroleum Distillate

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

EPA Reg. No. 499-429

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See side panels for Directions for Use and Storage and Disposal.

NET WEIGHT:

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 to 20 min. • Call a poison control center or doctor for treatment advice.
If in eyes	<ul style="list-style-type: none"> • Hold eyes open and rinse slowly and gently with water for 15 to 20 min. • Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. • Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
<p>Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), you may call 1-800-832-HELP 24 hr/day, 7 days/week.</p>	
<p>NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Contains petroleum distillate.</p>	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT (PPE):

Loaders, applicators and other handlers must wear the following: long-sleeve shirt, long pants, socks and shoes.

USER SAFETY REQUIREMENTS: Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Wash contaminated clothing before reuse.

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.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- 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. 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 hr will help ensure that wind or rain does not blow or wash pesticide off the treatment area.

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.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

USE RESTRICTIONS

- Apply product only as specified on this label.
- Aerial applications are prohibited.
- Applications with power duster equipment are prohibited.
- Applications to pets are prohibited.
- **DO NOT** apply more than 1 time/day.
- Only protected applicators may be in the treatment area during application.
- **DO NOT** enter or allow others to enter until dusts have settled.
- **DO NOT** apply this product in a way that will contact workers or other person, either directly or through drift.
- Except when applying to sewers or drains as instructed on this label, **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.
- Remove or cover exposed food and drinking water, in the treatment area, before application.
- Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces in the treatment area, or wash them before use.
- Only apply as a spot treatment to areas ≤ 3 ft x 3 ft/room.
- **DO NOT** use in aircraft cabins.
- All outdoor applications must be limited to spot or Crack & Crevice treatments only, except for the following permitted uses:
 - Treatment to soil or vegetation around structures;
 - Applications to building foundations, up to a maximum height of 3 ft.

Other than applications to building foundations, all outdoor applications to impervious surfaces such as sidewalks, driveways, patios, porches and structural surfaces (such as windows, doors and eaves) are limited to spot and Crack & Crevice applications only.

- **DO NOT** make outdoor applications during rain.
- **DO NOT** water the treated area to the point of run-off.

INDOOR USE

CRAWLING INSECTS (such as Ants, Booklice, Carpet Beetles, Cockroaches, Crickets, Firebrats, Scorpions, Silverfish and Spiders): Apply a small amount of product, at the rate of 1 oz/ 50 ft² of surface area, into cracks, crevices and/or voids and other places where these insects travel or harbor. Apply a continuous, visible film underneath and behind stairs, refrigerators and appliances. Apply on, around and behind moldings, shelving, baseboards, pipe openings, cracks, crevices, and other areas where insects hide. For severe infestations, apply this product behind cabinets and walls, in crawl spaces and attics at the rate of 1 lb/1,000 ft² of surface area.

STORED PRODUCT PESTS – for adult and larval stages of Cadelles, Cheese Mites, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Drugstore Beetles, Grain Mites, Granary Weevils, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles and Yellow Mealworms: To combat these pests in mills, elevators and granaries, clean up waste materials, dust, dirt, and other debris. Apply to floors, walls and other surfaces in bins, storage and handling areas. Apply into cracks, crevices and/or voids in pantries and other infested, difficult to reach areas within the structure where insects may hide.

FLEAS, LICE and TICKS: Apply to all areas these pests may inhabit, including pet bedding, floor and floor coverings. Apply into all cracks, crevices and/or voids, such as behind moldings, shelving, baseboards and pipe openings.

BED BUGS: Take bed apart. Dust into joints and channels. If hollow, such as square or round tubing, see that the interior framework is well dusted. Mattresses may be dusted, especially tufts, folds, and edges. Cover mattresses with clean bedding before use. Apply to other areas bed bugs may inhabit in the room, such as picture frame moldings and all cracks, crevices and/or voids.

DRYWOOD TERMITES, POWDER POST BEETLES: Use an electric or hand-operated rotary duster to distribute this product through insect entry points, such as crawl holes into attics and crawl spaces of buildings, at a rate of 1 lb/1,000 ft² of floor area. Close all vents and blowers on the windward side so that all wood surfaces can be treated. In case of localized infestations, probe to locate galleries and drill holes to inject this product into the galleries and void areas. If a heavy infestation has developed, fumigation should be employed.

SOWBUGS, PILLBUGS, GROUND BEETLES, EARWIGS, MILLIPEDES AND SCORPIONS: Apply into cracks, crevices and/or voids around doors and windows

and other places where these pests may enter premises. Treat behind baseboards, storage areas and other harborages.

FOOD HANDLING ESTABLISHMENTS

Food handling establishments are places other than private residences in which food is held, processed, prepared or served.

FOOD AREAS – application limited to Crack & Crevice treatment only: Include areas for receiving, serving, storing (dry, cold, frozen, raw), packing (canning, bottling, wrapping, boxing), preparing (cleaning, slicing, cooking, grinding), edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups).

Remove or cover all food and drinking water, in the treatment area, before application. Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces in the treatment area, or wash them before use.

Using a bulbous duster apply a small amount of material directly into cracks and crevices such as expansion joints between different elements of construction or between equipment bases and the floor, wall voids, motor housing, junction boxes or switch boxes, conduits or hollow equipment legs. Avoid depositing the product onto exposed surfaces or introducing material into the air.

NON-FOOD 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 areas (after canning or bottling).

Apply according to specific directions for pest(s) to be treated under the Indoor Use section.

INDOOR AND OUTDOOR USE

CARPENTER ANTS: Locate source of infestation or areas of suspected activity. Treat insect tunnels and cavities, and void areas. Treat points of entry or exit, such as cracks, crevices and/or voids around doors, windows and siding.

BOXELDER BUGS, CLOVER MITES, CLUSTER FLIES AND ELMLEAF BEETLES: Inject into cracks, crevices and/or voids where these insects may harbor or hibernate, such as behind siding, around window and door frames, and wall voids.

BEEES AND WASPS (in Ground or Voids): If practical, treat wasp and bee nests in the evening when insects are less active and have returned to the nest. Using a hand duster, or other suitable means, with extension tubes if necessary, thoroughly dust nest, nest entrance, and surrounding areas where insects alight. Locate nests in wall voids. If necessary, drill a hole. Apply dust through the hole, into the void, then reseal. Check nests 1 to 2 days after treatment to ensure total kill. Remove or destroy nest to prevent emergence of newly-hatched insects.

SEWER TREATMENTS: Cockroach or other insect infestations in sanitary sewers may be treated using approx. 6 oz of product per manhole. Treat 1 manhole/200 ft of line. Apply product to sides of manhole and other surfaces with a hand duster. Applications may also be made by removing the manhole cover and replacing with a disc of plywood bored to receive the usual flexible hose from portable or truck-mounted ventilating equipment, and introducing 6 oz of product into the ventilating air to be dispersed quickly and thoroughly through the system.

OUTDOOR USE AROUND STRUCTURES

ANTS, CLOVER MITES, COCKROACHES, CRICKETS, EARWIGS, GROUND BEETLES, MILLIPEDES, PILLBUGS, SCORPIONS, SOWBUGS AND SPIDERS:

Treat cracks, crevices and/or voids of foundations, porches and patios, around doors and windows, under siding, beneath guards on loading docks and other places where these pests may find entry into the structure.

STORAGE AND DISPOSAL

DO NOT contaminate water, food or feed by storage or disposal.

PESTICIDE STORAGE: Store in a cool, dry area. Always store pesticides in the original container. Store away from food and pet food.

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

CONTAINER DISPOSAL: Non-refillable container.

DO NOT reuse or refill this container. **If Empty:** Place in trash or offer for recycling if available. **If partly filled:** Call your local solid waste agency for disposal instructions.

CONDITIONS OF SALE AND WARRANTY

Follow the **Directions for Use**. It is impossible to eliminate all risks inherently associated with use of this product, and therefore all such risk shall be assumed by the Buyer. BASF Agricultural Solutions US LLC (hereafter "BASF") warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions for Use**, subject to the inherent risks, referred to above. **TO THE EXTENT CONSISTENT WITH APPLICABLE LAW: (A) BASF MAKES NO OTHER WARRANTIES EXPRESS OR IMPLIED, INCLUDING WARRANTIES OF FITNESS FOR PARTICULAR PURPOSE OR MERCHANTABILITY, (B) BUYER'S EXCLUSIVE REMEDY AND BASF'S AND SELLER'S EXCLUSIVE LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY, OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THE PRODUCT, AND (C) BASF AND THE SELLER DISCLAIM ANY LIABILITY FOR CONSEQUENTIAL, INCIDENTAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT.** BASF and the Seller offer this product, and the Buyer accepts it, subject to these **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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BASF Agricultural Solutions US LLC
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We create chemistry

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1. Identification

Product identifier used on the label

Tri-Die Silica & Pyrethrin Dust

Recommended use of the chemical and restriction on use

Recommended use*: insecticide

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:
BASF Agricultural Solutions US LLC
2 TW Alexander Drive
Research Triangle Park, NC 27713
USA

Telephone: +1 973 245-6000

Emergency telephone number
24 Hour Emergency Response Information
CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number: 395959
Registration number: EPA Registration number: 499-429
Synonyms: Pyrethrins + piperonyl butoxide + amorphous silica dioxide

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Asp. Tox.	1	Aspiration hazard
Aquatic Acute	1	Hazardous to the aquatic environment - acute
Aquatic Chronic	1	Hazardous to the aquatic environment - chronic

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Combustible Dust Combustible Dust (1) Combustible Dust

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

H304 May form combustible dust concentration in air.
H400 May be fatal if swallowed and enters airways.
H410 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P273 Avoid release to the environment.

Precautionary Statements (Response):

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or physician.
P391 Collect spillage.
P331 Do NOT induce vomiting.

Precautionary Statements (Storage):

P405 Store locked up.

Precautionary Statements (Disposal):

P501 Dispose of contents/container in accordance with local regulations.

Hazards not otherwise classified

Labeling of special preparations (GHS):

May cause paraesthesia. Contains: Pyrethrins
Repeated exposure may cause skin dryness or cracking.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Pyrethrins

CAS Number: 8003-34-7
Content (W/W): 1.0 %
Synonym: Pyrethrin

Piperonylbutoxide

CAS Number: 51-03-6
Content (W/W): 10.0 %
Synonym: Piperonylbutoxide

Silica gel, precipitated, crystalline free
CAS Number: 112926-00-8

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Content (W/W): 40.0 %
Synonym: Silica gel, precipitated, crystalline free

Distillates (petroleum), hydrotreated light
CAS Number: 64742-47-8
Content (W/W): ≥ 25.0 - $< 50.0\%$
Synonym: No data available.

BHT
CAS Number: 128-37-0
Content (W/W): ≥ 0.1 - $< 0.2\%$
Synonym: 2,6-Bis(1,1-dimethylethyl)-4-methylphenol; BHT, Butylated hydroxytoluene, 2,6-Di-tert-butyl-p-cresol

4. First-Aid Measures

Description of first aid measures

General advice:

First aid personnel should pay attention to their own safety. If the patient is likely to become unconscious, place and transport in stable sideways position (recovery position). Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Immediately wash thoroughly with soap and water, seek medical attention.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention. Do not induce vomiting due to aspiration hazard.

Most important symptoms and effects, both acute and delayed

Symptoms: Information, i.e. additional information on symptoms and effects may be included in the GHS labeling phrases available in Section 2 and in the Toxicological assessments available in Section 11., (Further) symptoms and / or effects are not known so far

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Vomiting may cause aspiration pneumonia due to the ingredients.

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

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5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
foam, dry powder, carbon dioxide

Special hazards arising from the substance or mixture

Hazards during fire-fighting:
carbon monoxide, carbon dioxide,
If product is heated above decomposition temperature, toxic vapours will be released. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:
Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Evacuate area of all unnecessary personnel. Contain contaminated water/firefighting water. Do not allow to enter drains or waterways. Dusty conditions may ignite explosively in the presence of an ignition source causing flash fire.

6. Accidental release measures

Further accidental release measures:

Avoid dispersal of dust in the air (e.g. by clearing dusty surfaces with compressed air). Avoid the formation and build-up of dust - danger of dust explosion. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition.

Personal precautions, protective equipment and emergency procedures

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. A spill of or in excess of the reportable quantity requires notification to state, local and national emergency authorities. This product is regulated by CERCLA ('Superfund').

Methods and material for containment and cleaning up

Dike spillage. Pick up with suitable absorbent material. 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. Nonsparking tools should be used.

7. Handling and Storage

Precautions for safe handling

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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. Provide good ventilation of working area (local exhaust ventilation if necessary). Keep away from sources of ignition - No smoking. Keep container tightly sealed. Protect against heat. 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. Provide means for controlling leaks and spills. 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. Avoid extreme heat. Ground all transfer equipment properly to prevent electrostatic discharge. Electrostatic discharge may cause ignition. Avoid dust formation. Dust in sufficient concentration can result in an explosive mixture in air. Handle to minimize dusting and eliminate open flame and other sources of ignition. Routine housekeeping should be instituted to ensure that dusts do not accumulate on surfaces. Dry powders can build static electricity charges when subjected to the friction of transfer and mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Refer to NFPA 654, Standard for the Prevention of Fire and Dust Explosions from the Manufacturing, Processing, and Handling of Combustible Particulate Solids (2013 Edition) for safe handling.

Conditions for safe storage, including any incompatibilities

Segregate from incompatible substances. Segregate from foods and animal feeds. Segregate from textiles and similar materials.

Further information on storage conditions: 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 stability:

May be kept indefinitely if stored properly.

If an expiry date is mentioned on the packaging/label this takes priority over the statements on storage duration in this safety data sheet.

Storage duration: 24 Months

8. Exposure Controls/Personal Protection

Users of a pesticidal product should refer to the product label for personal protective equipment requirements.

Components with occupational exposure limits

Pyrethrins	ACGIH, US:	TWA value 5 mg/m ³ ;
	OSHA Z1:	PEL 5 mg/m ³ ;

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Silica gel, precipitated, crystalline free	OSHA Z3:	TWA value 20 millions of particles per cubic foot of air ;
	OSHA Z3:	TWA value 0.8 mg/m ³ ; The exposure limit is calculated from the equation, 80mg/m ³ /(%SiO ₂), using a value of 100% SiO ₂ . Lower percentages of SiO ₂ will yield higher exposure limits.
	ACGIH, US:	TWA value 3 mg/m ³ Respirable particles ;
	ACGIH, US:	TWA value 10 mg/m ³ Inhalable particles ;
	OSHA Z3:	TWA value 15 millions of particles per cubic foot of air Respirable fraction ;
	OSHA Z3:	TWA value 15 mg/m ³ Total dust ;
	OSHA Z3:	TWA value 50 millions of particles per cubic foot of air Total dust ;
	OSHA Z3:	TWA value 5 mg/m ³ Respirable fraction ;

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment. It is recommended that all dust control equipment such as local exhaust ventilation and material transport systems involved in handling of this product contain explosion relief vents or an explosion suppression system or an oxygen deficient environment. Ensure that dust-handling systems (such as exhaust ducts, dust collectors, vessels, and processing equipment) are designed in a manner to prevent the escape of dust into the work area (i.e., there is no leakage from the equipment). Use only appropriately classified electrical equipment and powered industrial trucks.

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.

Eye protection:

Safety glasses with side-shields. Wear face shield or tightly fitting safety goggles (chemical goggles) 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:

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS 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. Handle in accordance with good

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industrial hygiene and safety practice. Wearing of closed work clothing is recommended. 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:	solid
Odour:	characteristic
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	white
pH value:	The product has not been tested.
Melting point:	The product has not been tested.
Boiling point:	The product has not been tested.
Flash point:	not applicable, the product is a solid
Flammability:	not flammable
Lower explosion limit:	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.
Upper explosion limit:	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.
Vapour pressure:	not applicable
Density:	approx. 0.28 g/cm ³ (21.1 °C)
Vapour density:	not applicable
Partitioning coefficient n-octanol/water (log Pow):	not applicable
Self-ignition temperature:	Based on its structural properties the product is not classified as self-igniting.
Thermal decomposition:	carbon monoxide, carbon dioxide Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.
Viscosity, dynamic:	not applicable, the product is a solid
Solubility in water:	dispersible
Evaporation rate:	not applicable
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.

10. Stability and Reactivity

Reactivity

No hazardous reactions if stored and handled as prescribed/indicated.

Corrosion to metals:

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Corrosive effects to metal are not anticipated.

Oxidizing properties:
not fire-propagating

Chemical stability

The product is stable if stored and handled as prescribed/indicated.

Possibility of hazardous reactions

The product is chemically stable.

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. This product may form an explosive mixture if: 1. the dust is suspended in the atmosphere as a dust cloud AND 2. the concentration of the dust is above the lower explosion limit (LEL) AND 3. the limiting oxygen concentration (LOC) is exceeded.

Incompatible materials

strong oxidizing agents

Hazardous decomposition products

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

Stable at ambient temperature. If product is heated above decomposition temperature toxic vapours may be released. To avoid thermal decomposition, do not overheat.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Relatively nontoxic after single ingestion. Slightly toxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

Oral

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg

Inhalation

Type of value: LC50

Species: rat (male/female)

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Value: > 4.3 mg/l (Directive 92/69/EEC, B.2)
Tested as dust aerosol.
Highest concentration capable of testing. No mortality was observed.

Dermal

Type of value: LD50
Species: rabbit
Value: > 2,000 mg/kg
No mortality was observed.

Assessment other acute effects

Assessment of STOT single:
Possible narcotic effects (drowsiness or dizziness).

The product has not been tested. The statement has been derived from the properties of the individual components.

Irritation / corrosion

Assessment of irritating effects: Not irritating to eyes and skin.

Skin

Species: rabbit

Eye

Species: rabbit

Sensitization

Assessment of sensitization: Skin sensitizing effects were not observed in animal studies.

modified Buehler test

Species: guinea pig

Aspiration Hazard

May also damage the lung at swallowing (aspiration hazard). The product has not been tested. The statement has been derived from the properties of the individual components.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Piperonylbutoxide

Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies. The substance may cause damage to the liver after repeated inhalation of high doses. Repeated dermal uptake of the substance did not cause substance-related effects.

Information on: Silica gel, precipitated, crystalline free

Assessment of repeated dose toxicity: The substance may cause damage to the lung after repeated inhalation of high doses.

Information on: BHT

Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion of high doses, as shown in animal studies.

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Repeated exposure may cause adverse thyroid effects as indicated in animal studies. Prolonged and repeated exposure may cause lung damage. May cause liver and kidney damage.

Genetic toxicity

Assessment of mutagenicity: Mutagenicity tests revealed no genotoxic potential. The product has not been tested. The statement has been derived from the properties of the individual components.

Carcinogenicity

Assessment of carcinogenicity: The results of various animal studies gave no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: pyrethrum

Assessment of carcinogenicity: The results of various animal studies gave no indication of a carcinogenic effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Not Likely to Be Carcinogenic to Humans.

Information on: 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-

Assessment of carcinogenicity: Not classified, due to lack of data. Not listed as a carcinogen by OSHA, IARC, & NTP.

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect. The product has not been tested. The statement has been derived from the properties of the individual components.

Teratogenicity

Assessment of teratogenicity: Animal studies gave no indication of a developmental toxic effect at doses that were not toxic to the parental animals. The product has not been tested. The statement has been derived from the properties of the individual components.

Other Information

Misuse can be harmful to health.
Has a degreasing effect on skin.

12. Ecological Information

Toxicity

Aquatic toxicity

Assessment of aquatic toxicity:

Very toxic to aquatic life with long lasting effects.

The product has not been tested. The statement has been derived from the properties of the individual components.

Toxicity to fish

Information on: Pyrethrins

*LC50 (96 h) 0.0052 mg/l, *Oncorhynchus mykiss**

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Information on: Piperonylbutoxide

LC50 (96 h) 3.49 mg/l, Cyprinodon variegatus (OECD Guideline 203, Flow through.)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

Aquatic invertebrates

Information on: Pyrethrins

EC50 (96 h) 0.0014 mg/l, Mysidopsis bahia

Information on: Piperonylbutoxide

EC50 (48 h) 0.51 mg/l, Daphnia magna (OECD Guideline 202, part 1, Flow through.)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

No observed effect concentration (28 d) 0.063 mg/l, aquatic arthropod (other)

The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested. Limit concentration test only (LIMIT test).

Aquatic plants

Information on: Piperonylbutoxide

EC50 (72 h) 3.89 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

No observed effect concentration (72 h) 0.824 mg/l (growth rate), Pseudokirchneriella subcapitata (OECD Guideline 201, static)

The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

Chronic toxicity to fish

Information on: Pyrethrins

No observed effect concentration 0.0019 mg/l, Pimephales promelas

Information on: Piperonylbutoxide

No observed effect concentration (35 d) 0.18 mg/l, Pimephales promelas (OPP 72-4 (EPA-Guideline), Flow through.)

The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

Chronic toxicity to aquatic invertebrates

Information on: Pyrethrins

No observed effect concentration (28 d) 0.00086 mg/l, Daphnia magna

Information on: Piperonylbutoxide

No observed effect concentration (21 d) 0.03 mg/l, Daphnia magna (OPP 72-4 (EPA-Guideline), Flow through.)

The details of the toxic effect relate to the nominal concentration. The product has low solubility in the test medium. An aqueous solution prepared with solubilizers has been tested.

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Persistence and degradability

Assessment biodegradation and elimination (H2O)

The product has not been tested. The statement has been derived from the properties of the individual components.

Assessment biodegradation and elimination (H2O)

Information on: Pyrethrins

Not readily biodegradable (by OECD criteria).

Information on: Piperonylbutoxide

Not readily biodegradable (by OECD criteria).

Bioaccumulative potential

Assessment bioaccumulation potential

The product has not been tested. The statement has been derived from the properties of the individual components.

Bioaccumulation potential

Information on: Pyrethrins

Bioconcentration factor: 471

Accumulation in organisms is not to be expected.

Information on: Piperonylbutoxide

*Bioconcentration factor: 91 - 380 (28 d), *Lepomis macrochirus* (OECD Guideline 305 E)*

Mobility in soil

Assessment transport between environmental compartments

The product has not been tested. The statement has been derived from the properties of the individual components.

Information on: Pyrethrins

Following exposure to soil, adsorption to solid soil particles is probable, therefore contamination of groundwater is not expected.

Information on: Piperonylbutoxide

Adsorption to solid soil phase is not expected.

Additional information

Other ecotoxicological advice:

Do not discharge product into the environment without control.

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13. Disposal considerations

Waste disposal of substance:

Pesticide wastes are regulated. 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:

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.

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 3077
Hazard label: 9, EHSM
Marine pollutant: YES
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains PYRETHRINS, PIPERONYLBUTOXIDE)

Air transport

IATA/ICAO

Hazard class: 9
Packing group: III
ID number: UN 3077
Hazard label: 9, EHSM
Proper shipping name: ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
(contains PYRETHRINS, PIPERONYLBUTOXIDE)

Further information

Product may be shipped as non-hazardous in suitable packages containing a net quantity of 5 kg or less under the provisions of various regulatory agencies: ADR, RID, ADN: Special Provision 375; IMDG: 2:10.2.7; IATA: A197; TDS: Special Provision 99(2); 49CFR: §171.4 (c) (2) and also the Special Provision 375 in Appendix B which is regulated in China "Regulations Concerning Road Transportation of Dangerous Goods Part 3: Index of dangerous goods name and transportation requirements" (JT/T 617.3)

15. Regulatory Information

Federal Regulations

Registration status:

Crop Protection TSCA, US released / exempt

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EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

EPCRA 313:

<u>CAS Number</u>	<u>Chemical name</u>
51-03-6	Piperonylbutoxide

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
100 LBS	64742-47-8	Distillates (petroleum), hydrotreated light
1 LBS	8003-34-7	Pyrethrins

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	57-55-6	Propylene glycol
	8003-34-7	Pyrethrins
	51-03-6	Piperonylbutoxide
PA	57-55-6	Propylene glycol
	8003-34-7	Pyrethrins
	112926-00-8	Silica gel, precipitated, crystalline free

NFPA Hazard codes:

Health: 1 Fire: 1 Reactivity: 0 Special:

Labeling requirements under FIFRA

This chemical is a pesticide product regulated 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 workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION:

KEEP OUT OF REACH OF CHILDREN.

Hazards to humans and domestic animals.

HARMFUL IF ABSORBED THROUGH SKIN.

Causes moderate eye irritation.

Avoid contact with the skin, eyes and clothing.

If clothing becomes contaminated, remove immediately and wash separately from household laundry before reuse.

16. Other Information

SDS Prepared by:

BASF Agricultural Solutions US NA Product Regulations
SDS Prepared on: 2023/12/22

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

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operations on society and the environment during production, storage, transport, use and disposal of our products.

END OF DATA SHEET

