

PT[®] Tri-Die[®]

Pressurized Dust Insecticide

KILLS: Ants (excluding Fire, Harvester and Pharaoh), Bed Bugs, Beetles, Booklice, Boxelder Bugs, Caddises, Cheese Mites, Chocolate Moths, Cigarette Beetles, Clover Mites, Cluster Flies, Cockroaches, Confused Flour Beetles, Crickets, Dark Mealworms, Dermestids, Drugstore Beetles, Earwigs, Elm Leaf Beetles, Firebrats, Flat Grain Beetles, Fleas, Grain Mites, Grain Weevils, Granary Weevils, Ground Beetles, Indianmeal Moths, Lice, Mealworms, Millipedes, Pillbugs, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Scorpions, Silverfish, Sowbugs, Spiders, Termites, Ticks, Trogodermas and Yellow Mealworms

FOR USE IN AND AROUND: Apartments, Food Handling Establishments (including Food Processing Plants, Food Storage Areas, Meat Packing Plants, Restaurants), Homes, Hospitals[†], Hotels, Motels, Nursing Homes[†], Schools, Supermarkets, Transportation Equipment (Buses, Boats, Ships, Trains), Warehouses and Other Commercial and Industrial Buildings

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

ACTIVE INGREDIENTS:

Pyrethrins, a <i>botanical insecticide</i>	0.6%
Piperonyl Butoxide*	4.8%
Amorphous Silica Dioxide	8.0%
OTHER INGREDIENTS:	<u>86.6%</u>
TOTAL:	100.0%

Contains petroleum distillate.

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

EPA Reg. No. 499-385

EPA Est. No.

**KEEP OUT OF REACH OF CHILDREN
CAUTION**

See side panel(s)/inside booklet for First Aid, Precautionary Statements, Directions for Use and Storage and Disposal.

NET CONTENTS:

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

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FIRST AID	
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. • Call a poison control center or doctor for treatment advice.
If swallowed	<ul style="list-style-type: none"> • Immediately call a poison control center or doctor. • DO NOT induce vomiting unless told to do so by a poison control center or doctor. • DO NOT give any liquid to the person. • DO NOT give anything by mouth to an unconscious person.
HOTLINE NUMBER	
Have the product container 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 (4357) 24hr/day, 7 days/week.	
NOTE TO PHYSICIAN: Contains petroleum distillate – vomiting may cause aspiration pneumonia.	

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Avoid contact with eyes or clothing.

Personal Protective Equipment (PPE): Applicators and other handlers must wear the following: Long-sleeve shirt, long pants, socks and shoes.

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

USER SAFETY RECOMMENDATIONS

User 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. **DO NOT** apply directly to or near water. Drift and runoff may be hazardous to fish in water adjacent to treated areas. See "Directions for Use" for additional precautions and requirements.

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.

PHYSICAL OR CHEMICAL HAZARDS

Flammable. Contents under pressure. Keep away from heat, sparks, and open flame. **DO NOT** puncture or

incinerate container. Exposure to temperatures above 130°F may cause bursting. **DO NOT** apply directly into any electronic equipment such as radios, televisions, computers, telephones, etc. where the powdery residue may foul or short electric contacts and circuits.

DIRECTIONS FOR USE

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

SHAKE WELL BEFORE USING

Product dispenses best when held in upright position.

USE RESTRICTIONS

- Apply this product only as specified on this label.
- **DO NOT** apply more than 1 time/day.
- Only protected applicators may be in treatment area during application.
- **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift.
- When used as a direct spray, do not enter or allow others to enter until sprays have dried.
- **DO NOT** spray on plastic, painted or varnished surfaces.
- For Crack & Crevice® or surface spray applications indoors: Remove or cover exposed food, drinking water and utensils, 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.
- For spray applications to articles (curtains, carpets or furniture): **DO NOT** wet articles to the point of run-off or drip.
- **DO NOT** use treated article until spray has dried.
- 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.

- **DO NOT** apply to the rooms of hospitals, nursing homes and similar care institutions while occupied by patients or the infirm. Remove patients prior to treatment. **DO NOT** treat mattresses in patient rooms. Ventilate room for 2 hr before reoccupying.
- For applications to non-residential indoor sites: **DO NOT** use in aircraft cabins.
- **DO NOT** make outdoor applications during rain.
- For outdoor residential use: **DO NOT** water the treated area to the point of run-off.

APPLICATION INSTRUCTIONS

CRACK & CREVICE OR VOID APPLICATION: Use the supplied actuator and injection tubes. Inject into cracks and crevices or void spaces where insects may be harboring, living and breeding. Place injector tip into cracks, crevices, holes and other small openings and release approx. 1 sec of product. Move injector tip along cracks while treating at the rate of 3 ft/sec. For closed voids, calculate the void's cubic area and treat at the rate of 3 to 5 sec/3 ft³. For closed void areas, drill small access holes. Several holes may be required in long-running voids. This product can leave a white residue that can normally be removed with a damp cloth or sponge.

DIRECT SPRAY: Apply the product in short bursts into the area where insects are to be contacted such as corners of the room, behind and under furniture or equipment. Apply from a distance of 18 to 24" from the surface and allow the material to drift to the area to be treated. The amount of product applied is not to exceed 10 sec/room for residential areas or 10 sec/100 ft² for commercial areas.

SPOT TREATMENT: Apply in short bursts, approx. 1 sec of product at a time. Limit individual spot treatments to an area no larger than 20% of the surface area. Any individual spot treatment shall not exceed 2 ft². Contact as many insects as possible. Before making any application, ensure product will not stain surface or leave an unacceptable residue.

INDOOR USE

COCKROACHES, CRICKETS, DERMESTIDS, EARWIGS, MILLIPEDES, SCORPIONS, SOWBUGS AND SPIDERS: Apply as a Crack & Crevice or void treatment into areas where insects harbor, such as openings around pipes and sinks, under refrigerators, behind baseboards, washing machines, stoves, cabinets, sewer, floor drains and meter boxes.

For treatment of these pests in inaccessible voids (wall voids, equipment voids, attics, crawl spaces and manholes where human contact with treated surfaces will be minimal), calculate the horizontal surface area of the void and treat at the rate of 1 sec/ft².

BOOKLICE, SILVERFISH, FIREBRATS: Apply to cracks and crevices in baseboards, door frames, bookcases and

other storage areas. Also apply in wall and other voids where insects may harbor.

For treatment of these pests in inaccessible voids (wall voids, equipment voids, attics, crawl spaces, and manholes where human contact with treated surfaces will be minimal), calculate the horizontal surface area of the void and treat at a rate of 1 sec/ft².

ANTS (except Fire, Harvester and Pharaoh): Inject product into cracks, crevices and voids where ants may be traveling and/or harboring (including around doors, window frames, wall voids and other structural cracks, crevices and void areas).

FLEAS, LICE AND TICKS: Treat pet bedding, floor and floor coverings, and all areas pests may inhabit at the rate of 1 sec/10 ft². Apply to cracks and crevices behind moldings, shelving, baseboards, pipe openings and all other cracks. **Notice:** This product has been tested on several types of carpet, fabric and other household furnishings without adverse affects. Because of the wide variety of floor types and finishes, treat a small inconspicuous area before treating the entire area. Avoid contact with antique finishes.

BED BUGS: Apply to cracks, crevices, voids and/or harborages, where evidence of bed bugs occurs, including bed frames, box springs, inside empty dressers, furniture and clothes closets, carpet edges, high and low wall moldings, behind headboards, pictures, wallpaper edges and underneath all flat surfaces where human contact will occur. **DO NOT** make surface applications to mattresses or bedding. Mattress treatments must be limited to seams, folds and edges only. **DO NOT** treat pillows, bedding or clothing. Remove linens and wash before reuse. Allow treated mattress to dry thoroughly before remaking bed. Remove all clothes and other articles from dressers or clothes closets before application. Allow all treated areas to dry thoroughly before use. **DO NOT** use in patient rooms of hospitals and nursing homes for treatment of bed bugs. Reapply every 7 to 10 days, as needed, until infestation is eliminated.

STORED PRODUCT PESTS – For adult and larval stages of Cadelles, Cheese Mites, Chocolate Moths, Cigarette Beetles, Confused Flour Beetles, Dark Mealworms, Drugstore Beetles, Flat Grain Beetles, Grain Mites, Grain Weevils, Granary Weevils, Indianmeal Moth, Mealworms, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Trogodermas and Yellow Mealworms: Inject into cracks, crevices/corners and/or voids, such as in pantries, cabinets, food processing and handling equipment, machinery, wall voids and other places where these insects harbor. Apply around cartons, containers and other areas where these insects tend to congregate.

TERMITES: Apply as a spot treatment for localized infestation. Probe to locate galleries, drill holes and inject at the rate of 5 to 10 sec/hole into the active galleries and void areas. The purpose of such treatment is to kill workers or winged forms which may be present in the treated galleries

at the time of treatment, and to impart a temporary resistance to attack, which may aid to prevent immediate reinfestation. Such applications are not a substitute for mechanical alteration, soil treatment or foundation treatment, but are merely a supplement.

FOOD HANDLING ESTABLISHMENTS

Food handling establishments are places other than private residences in which food is held, processed, prepared or served. **Application limited to Crack & Crevice treatment only.**

FOOD AREAS: 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).

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).

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.

Apply directly into cracks, crevices and void areas, using an injection tube, in points between different elements of construction, between equipment and floors, openings leading to voids and hollow spaces in walls, equipment legs and bases where insects hide.

INDOOR AND OUTDOOR USE

CARPENTER ANTS: Locate source of infestation or areas of suspected activity. Inject 5 to 10 sec of product into insect tunnels and cavities. Inject into cracks, crevices and/or voids, where different elements of construction meet, that allow insects to enter and move about the structure.

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 wall voids, behind siding, around windows and door frames.

OUTDOOR USE AROUND STRUCTURES

ANTS (excluding Fire, Harvester and Pharaoh), 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.

STORAGE: Store in a cool, dry area away from heat or open flame and inaccessible to children.

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

CONTAINER HANDLING: DO NOT puncture or incinerate! **If empty:** Place in trash or offer for recycling, if available. **If partly filled:** Call your local solid waste agency for disposal instructions.

Contains no CFCs or other ozone depleting substances.
Federal regulations prohibit CFC propellants in aerosols.



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 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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Safety Data Sheet

PT TRI-DIE PRESSURIZED DUST INSECTICIDE

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1. Identification

Product identifier used on the label

PT TRI-DIE PRESSURIZED DUST INSECTICIDE

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 CORPORATION
100 Park Avenue
Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300
BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Substance number: 546173
EPA Registration number: 499-385
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
Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Muta.	1B	Germ cell mutagenicity
Carc.	1B	Carcinogenicity
STOT SE	3 (Vapours may cause drowsiness and	Specific target organ toxicity — single exposure

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Aquatic Acute	dizziness.) 2	Hazardous to the aquatic environment - acute
Aquatic Chronic	2	Hazardous to the aquatic environment - chronic
Flam. Aerosol	1	Flammable aerosols

Label elements

Pictogram:



Signal Word:
Danger

Hazard Statement:

H222	Extremely flammable aerosol.
H319	Causes serious eye irritation.
H315	Causes skin irritation.
H304	May be fatal if swallowed and enters airways.
H336	May cause drowsiness or dizziness.
H350	May cause cancer.
H340	May cause genetic defects.
H401	Toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Precautionary Statements (Prevention):

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P201	Obtain special instructions before use.
P273	Avoid release to the environment.
P271	Use only outdoors or in a well-ventilated area.
P202	Do not handle until all safety precautions have been read and understood.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P308 + P311	IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P352	IF ON SKIN (or hair): Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P391	Collect spillage.
P337 + P311	If eye irritation persists: Call a POISON CENTER or doctor/physician.
P331	Do NOT induce vomiting.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

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P403 + P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50°C/122°F.

Precautionary Statements (Disposal):

P501 Dispose of contents/container to hazardous or special waste collection point.

Hazards not otherwise classified

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 15 - 28 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 15 - 28 % oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 21 - 34 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 21 - 35 % Inhalation - mist

May produce an allergic reaction. Contains: 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

CAUTION:

KEEP OUT OF REACH OF CHILDREN.

Can cause moderate eye irritation.

Avoid contact with the skin, eyes and clothing.

Wash thoroughly after handling.

Avoid inhalation of mists/vapours.

Flammable Liquid

Aerosol container contains flammable gas under pressure.

3. Composition / Information on Ingredients

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

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
8003-34-7	0.6 %	pyrethrum
51-03-6	4.8 %	Piperonylbutoxide
112926-00-8	8.0 %	Silica gel, precipitated, crystalline free
67-64-1	50.0 - 75.0%	Acetone
540-84-1	7.0 - 15.0%	2,2,4-trimethylpentane
64741-66-8	7.0 - 15.0%	Naphtha (petroleum), light alkylate
64742-47-8	1.0 - 3.0%	Distillates, petroleum
75-37-6	10.0 - 15.0%	Ethane, 1,1-difluoro-

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
8003-34-7	0.6 %	pyrethrum
51-03-6	4.8 %	Piperonylbutoxide
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	86.6 %	Proprietary ingredients
67-64-1		Acetone
540-84-1		2,2,4-trimethylpentane
124-38-9		carbon dioxide
64742-47-8		Distillates, petroleum

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: The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.
Hazards: Vomiting may cause aspiration pneumonia due to the ingredients.

Indication of any immediate medical attention and special treatment needed

Note to physician

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

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, hydrogen fluoride, halogenated hydrocarbons, halogenated compounds

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The substances/groups of substances mentioned can be released in case of fire. Aerosol container contains flammable gas under pressure. Risk of explosion at excessive temperatures.

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.

6. Accidental release measures

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.

7. Handling and Storage

Precautions for safe handling

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:

Aerosol container contains flammable gas under pressure. 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.

Conditions for safe storage, including any incompatibilities

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

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Further information on storage conditions: Protect containers from physical damage. Store in a cool, dry, well-ventilated area. Avoid all sources of ignition: heat, sparks, open flame.

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.

Protect from temperatures above: 130 °F

Explosive at or above indicated temperature.

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

Acetone	OSHA PEL	PEL 1,000 ppm 2,400 mg/m ³ ; TWA value 750 ppm 1,800 mg/m ³ ; STEL value 1,000 ppm 2,400 mg/m ³ ;
	ACGIH TLV	STEL value 500 ppm ; TWA value 250 ppm ;
carbon dioxide	OSHA PEL	PEL 5,000 ppm 9,000 mg/m ³ ; STEL value 30,000 ppm 54,000 mg/m ³ ; TWA value 10,000 ppm 18,000 mg/m ³ ;
	ACGIH TLV	STEL value 30,000 ppm ; TWA value 5,000 ppm ;
2,2,4-trimethylpentane	OSHA PEL	PEL 500 ppm 2,350 mg/m ³ ; TWA value 300 ppm 1,450 mg/m ³ ; STEL value 375 ppm 1,800 mg/m ³ ;
	ACGIH TLV	TWA value 300 ppm ; TWA value 300 ppm ;
Distillates, petroleum	ACGIH TLV	TWA value 200 mg/m ³ Non-aerosol (total hydrocarbon vapor); Application restricted to conditions in which there are negligible aerosol exposures. Skin Designation Non-aerosol (total hydrocarbon vapor); The substance can be absorbed through the skin.
	OSHA PEL	TWA value 6 mg/m ³ ; TWA value 0.8 mg/m ³ ; The exposure limit is calculated from the equation, 80/(%SiO ₂), using a value of 100% SiO ₂ . Lower percentages of SiO ₂ will yield higher exposure limits. TWA value 20 millions of particles per cubic foot of air ;

Advice on system design:

Whenever possible, engineering controls should be used to minimize the need for personal protective equipment.

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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. Tightly fitting safety goggles (chemical goggles). Wear face shield if splashing hazard exists.

Body protection:

Body protection must be chosen depending on activity and possible exposure, e.g. head protection, apron, protective boots, chemical-protection suit.

General safety and hygiene measures:

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. 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:	aerosol
Odour:	characteristic, of acetone
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	off-white
pH value:	approx. 5 - 7 (23.4 °C)
Melting point:	< 0 °C The statements are based on the properties of the individual components.
onset of boiling:	-25 °C The statements are based on the properties of the individual components.
Flammability:	Extremely flammable.
Aerosol foam	> 18 in
flammability test:	no flashback
NFPA 30B flammability:	Level 2 Aerosol

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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:	> 1 hPa The statements are based on the properties of the individual components.
Density:	approx. 0.84 g/cm ³ (21 °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, halogenated hydrocarbons, hydrogen fluoride 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:	approx. 110 mPa.s (21.3 °C)
Solubility in water:	slightly soluble
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:

Corrosive effects to metal are not anticipated.

Oxidizing properties:

Based on its structural properties the product is not classified as oxidizing.

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.

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Incompatible materials

No substances known that should be avoided.

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, halogenated hydrocarbons, hydrogen fluoride

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. Relatively nontoxic after short-term skin contact. Relatively nontoxic after short-term inhalation.

Oral

Type of value: LD50

Species: rat (female)

Value: > 5,000 mg/kg

Inhalation

Type of value: LC50

Species: rat (male/female)

Value: > 2.11 mg/l

Exposure time: 4 h

An aerosol was tested.

No mortality was observed.

Dermal

Type of value: LD50

Species: rat (male/female)

Value: > 5,000 mg/kg

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

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Assessment of irritating effects: May cause slight irritation to the skin. May cause moderate but temporary irritation to the eyes.

Skin

Species: rabbit
Result: Slightly irritating.

Eye

Species: rabbit
Result: Slightly irritating.

Sensitization

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

Buehler test

Species: guinea pig
Result: Skin sensitizing effects were not observed in animal studies.

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: Acetone

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

Information on: carbon dioxide

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

Genetic toxicity

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

Information on: pyrethrum

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. No mutagenic effects reported.

Carcinogenicity

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

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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.*

Reproductive toxicity

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

Information on: pyrethrum

Assessment of reproduction toxicity: No reproductive toxic effects reported.

Information on: Acetone

Assessment of reproduction toxicity: As shown in animal studies, the product may cause damage to the testes after repeated high exposures that cause other toxic effects.

Teratogenicity

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

Information on: pyrethrum

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

Other Information

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

Symptoms of Exposure

The most important known symptoms and effects are described in the labelling (see section 2) and/or in section 11., Further important symptoms and effects are so far not known.

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: pyrethrum

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

LC50 (96 h) 0.01 mg/l, Lepomis macrochirus

Information on: piperonyl butoxide

LC50 1.9 mg/l, Oncorhynchus mykiss

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Aquatic invertebrates

Information on: pyrethrum
EC50 (48 h) 0.012 mg/l, Daphnia magna
EC50 (48 h) 0.0014 mg/l, Mysidopsis bahia

Information on: piperonyl butoxide
EC50 0.49 mg/l, Mysidopsis bahia

Aquatic plants

Information on: pyrethrum
No toxic effects occur within the range of solubility.

Information on: piperonyl butoxide
EC50 14.9 mg/l, Chlorella fusca

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.

Bioaccumulative potential

Assessment bioaccumulation potential

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

Assessment bioaccumulation potential

Information on: Piperonylbutoxide

Accumulation in organisms is not to be expected.

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: pyrethrum

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:

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Do not discharge product into the environment without control.

13. Disposal considerations

Waste disposal of substance:

Pesticide wastes are regulated. Improper disposal of excess pesticide, spray mix or rinsate is a violation of federal law. If pesticide wastes cannot be disposed of according to label instructions, contact the State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

Container disposal:

Do not cut, puncture, crush, or incinerate empty aerosol containers. Consult state or local disposal authorities for approved alternative procedures such as container recycling. Empty aerosol cans may meet the definition of RCRA D003. Consult local and/or regional EPA for further guidance.

14. Transport Information

Land transport

USDOT

Hazard class:	2.1
ID number:	UN 1950
Hazard label:	2.1, EHSM
Proper shipping name:	AEROSOLS (contains 1,1-DIFLUOROETHANE, ACETONE/DIMETHYLKETONE)

Sea transport

IMDG

Hazard class:	2.1
ID number:	UN 1950
Hazard label:	2.1, EHSM
Marine pollutant:	YES
Proper shipping name:	AEROSOLS (contains 1,1-DIFLUOROETHANE, ACETONE/DIMETHYLKETONE)

Air transport

IATA/ICAO

Hazard class:	2.1
ID number:	UN 1950
Hazard label:	2.1
Proper shipping name:	AEROSOLS, FLAMMABLE (contains 1,1-DIFLUOROETHANE, ACETONE/DIMETHYLKETONE)

Further information

DOT: This product may be classified as ORM-D (Consumer Commodity) or Limited Quantity. After 12/31/2020, ORM-D will not apply.

15. Regulatory Information

Federal Regulations

Registration status:

Crop Protection TSCA, US released / exempt

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Chemical TSCA, US blocked / not listed

EPCRA 311/312 (Hazard categories): Acute; Chronic

EPCRA 313:

CAS Number

51-03-6

Chemical name

Piperonylbutoxide

CERCLA RQ

5000 LBS

1000 LBS

1 LBS

CAS Number

67-64-1

540-84-1

8003-34-7

Chemical name

Acetone

2,2,4-trimethylpentane

Pyrethrins

State regulations

State RTK

PA

CAS Number

67-64-1

540-84-1

112926-00-8

124-38-9

64742-47-8

MA

75-37-6

67-64-1

540-84-1

112926-00-8

124-38-9

64742-47-8

NJ

75-37-6

67-64-1

540-84-1

124-38-9

64742-47-8

51-03-6

112926-00-8

Chemical name

Acetone

2,2,4-trimethylpentane

Silica gel, precipitated, crystalline free carbon dioxide

Distillates, petroleum

Ethane, 1,1-difluoro-

Acetone

2,2,4-trimethylpentane

Silica gel, precipitated, crystalline free carbon dioxide

Distillates, petroleum

Ethane, 1,1-difluoro-

Acetone

2,2,4-trimethylpentane

carbon dioxide

Distillates, petroleum

Piperonylbutoxide

Silica gel, precipitated, crystalline free

Labeling requirements under FIFRA

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 workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label.

CAUTION:

KEEP OUT OF REACH OF CHILDREN.

May cause moderate but temporary irritation to the eyes.

Avoid contact with the skin, eyes and clothing.

Wash thoroughly after handling.

Avoid inhalation of mists/vapours.

Flammable Liquid

Aerosol container contains flammable gas under pressure.

16. Other Information

SDS Prepared by:

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BASF NA Product Regulations

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