

SPECIMEN

PT[®] 565 Plus XLO[®]

Pressurized Contact Insecticide

KILLS: Angoumois Grain Moths, Ants, Bed Bugs, Bees, Booklice, Carpet Beetles, Chocolate Moths, Cigarette Beetles, Clothes Moths, Clover Mites, Cluster Flies, Cockroaches, Confused Flour Beetles, Crickets, Drug Store Beetles, Fleas, Flies, Fruit Flies, Gnats, Grain Mites, Granary Weevils, Horn Flies, House Flies, Indianmeal Moths, Mediterranean Flour Moths, Millipedes, Mosquitoes, Mud Daubers, Red Flour Beetles, Rice Weevils, Sawtoothed Grain Beetles, Silverfish, Small Flying Moths, Sowbugs, Spiders, Stable Flies, Ticks, and Wasps

FOR USE IN AND AROUND: Apartments, Campgrounds, Food Storage Areas, Homes, Hospitals[†], Hotels, Motels, Nursing Homes[†], Resorts, Restaurants and other Food Handling Establishments[†], Schools[†], Supermarkets, Transportation Equipment (Boats, Buses, Planes[†], Ships, Trains, and Trucks), Utilities, and Warehouses and other Commercial and Industrial Buildings

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

ACTIVE INGREDIENTS:

Pyrethrins, <i>a botanical insecticide</i>	0.5%
Piperonyl Butoxide*	1.0%
n-Octyl Bicycloheptene Dicarboximide	1.0%

OTHER INGREDIENTS: 97.5%

TOTAL: 100.0%

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

EPA Reg. No. 499-290

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION/PRECAUTION

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

Refer to full label for **First Aid, Precautionary Statements, Directions For Use, and Conditions of Sale and Warranty.**

In case of an emergency endangering life or property involving this product, call day or night 1-800-832-HELP (4357).

NET CONTENTS:

BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709

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FIRST AID	
If swallowed	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have person sip a glass of water if able to swallow. • DO NOT induce vomiting unless told to do so by a poison control center or doctor. • DO NOT give anything to an unconscious person.
If on skin	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15 to 20 minutes. • Call a poison control center or doctor for treatment advice.
HOTLINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact BASF Corporation for emergency medical treatment information: 1-800-832-HELP (4357).	

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION. Harmful if swallowed or absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Personal Protective Equipment (PPE)

Applicators and other handlers must wear the following: long-sleeved shirt and long pants, socks, shoes, and chemical-resistant gloves made of barrier laminate.

In addition to the above PPE, applicators fogging this product (applying as a space spray) in an enclosed area must wear a half-face, full-face, or hood-style NIOSH-approved respirator with a dust/mist filtering cartridge (MSHA/NIOSH approval number prefix TC-21C), a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G), or a cartridge or canister with any R, P, or HE filter.

User Safety Requirements

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

Discard clothing and other absorbent material that have been drenched or heavily contaminated with product's concentrate. **DO NOT** reuse them.

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

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

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

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** use this product in electrical equipment (where there is exposed wiring or contact points) due to possibility of short circuits and shock hazard.

Directions For Use

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

Use Restrictions

- **DO NOT** wet plants to point of runoff or drip.
- Apply this product only as specified on this label.
- Only protected applicators may be in the treatment area during application.
- **DO NOT** apply more than 1 time per day.
- Product should only be used when can temperature is above 60° F. If can temperature is below 60° F, store at room temperature until a temperature above 60° F is reached.
- **DO NOT** apply this product in a way that will contact workers or other persons, either directly or through drift.

- Remove pets and birds before application. Cover fish aquariums and turn off air pump motors before application.
- Use only with the supplied actuator and injection tubes or other application equipment approved by the registrant.
- **DO NOT** spray on plastic, painted, or varnished surfaces or directly into any electronic equipment such as radios, televisions, computers, etc.
- When used as a direct spray, **DO NOT** enter or allow others to enter until sprays have dried.
- **DO NOT** make outdoor applications during rain.
- 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.
- For space sprays:
 - **DO NOT** allow adults, children, or pets to enter the treated area for at least 15 minutes and until vapors, mists, and aerosols have dispersed and the treated area has been thoroughly ventilated.
 - **DO NOT** remain in treated area. Exit area immediately and remain outside the treated area until aerosol, vapors, and/or mists have dispersed.
- **DO NOT** wet articles to point of runoff or drip.
- **DO NOT** use treated articles until spray has dried.
- For direct application to clothing, dry clean treated clothes before wearing.
- For space spray applications in food handling and processing facilities:
 - **DO NOT** make applications when facility is in operation.
 - Cover or remove food in the treatment area.
 - Cover food processing surfaces in the treatment area or clean after treatment and before use.
- **DO NOT** use in aircraft cabins. Use only in cargo areas.
- When used in dairy barns or facilities: Close milk bulk tank lids to prevent contamination from spray and from dead or falling insects. Remove or cover milking utensils before application. Wash teats of animals before milking.
- In livestock operations, apply only when animals are not present.
- **DO NOT** apply this product in hospital rooms while occupied or in any rooms occupied by the elderly or infirm. Remove patients from room prior to treatment and thoroughly ventilate (2 hours) after application. **DO NOT** return patients to room until after ventilation.
- **DO NOT** use in patient rooms in hospitals and nursing homes for treatment of bed bugs.
- **DO NOT** apply to classrooms when in use.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in a cool, dry area away from heat or open flame, in an area that is inaccessible to children and animals.

Pesticide Disposal

Wastes resulting from use of this product may be disposed of on-site or at an approved waste disposal facility. If these wastes cannot be disposed of according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representatives at the nearest EPA Regional Office for guidance.

Container Disposal

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

In Case of Emergency

In case of large-scale spill of this product, call:

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

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment
- Your local poison control center (hospital)
- BASF Corporation 1-800-832-HELP (4357)

Application Instructions

Apply according to specific directions for pest(s) to be treated.

Crack & Crevice® Application

Inject this product 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. Apply product for 1 second. For light infestations, move injector tip along cracks while treating at the rate of 3 feet per second. For heavy infestations, move injector tip along at 1 foot per second. The amount of product applied is to not exceed 1 second (1.5 grams) per square foot.

For treatment of inaccessible voids (including wall and equipment voids), calculate the void's cubic area and treat at the rate of 3 to 5 seconds per 3 cubic feet. Several holes may be required in long-running voids. The amount of product applied is not to exceed 1 second (1.5 grams) per square foot once deposited.

Direct Spray

Apply the product in short bursts into the area where insects are to be contacted such as corners of the room, and behind and under furniture or equipment. Apply from a distance of 18 to 24 inches 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 seconds per room for residential areas or 10 seconds per 100 square feet for commercial areas.

Space Spray

Turn off air conditioners and fans; and close doors and windows before treating. Calculate the cubic footage of the area to be treated and apply as follows: **Flying Insects:** Apply at the rate of 1 to 3 seconds per 1,000 cubic feet.

Crawling Insects: Apply at the rate of 20 seconds per 1,000 cubic feet. Disperse toward areas suspected of harboring the greatest insect infestations. Disperse in all locations contacting as many insects as possible. Keep area closed for 15 minutes. Open and thoroughly ventilate before reoccupying. The amount of product applied is not to exceed 20 seconds (30 grams) per 1,000 cubic feet.

Indoor Use

Apply this product as a **Crack & Crevice®** treatment, space spray, and/or direct spray. Apply according to the **Application Instructions** unless otherwise instructed below.

Bees, Clover Mites, Cluster Flies, Flies, Fruit Flies, Gnats, House Flies, Mosquitoes, Small Flying Moths, Stable Flies, and Wasps

Perform directed spray and/or void treatments in infested areas. **Inside Structural Voids:** Locate all insect entrances and close all but one opening. Apply product through that opening.

Ants, Booklice, Clover Mites, Cockroaches, Crickets, Millipedes, Silverfish, Sowbugs, and Spiders

Treat harborage areas such as behind baseboards, sinks, cabinets, meter boxes, door frames, corners of rooms, and windows. Open and thoroughly ventilate the treated area before reoccupying.

Bed Bugs

Take bed apart. Treat joints and channels if hollow, such as square or round tubing, and see that the interior framework is treated. Treat mattresses, especially tufts, folds, and edges. Cover mattresses with clean bedding before use. When bed bugs are found in upholstered furniture, apply only to the infested tufts, seams, folds, and edges and underneath all areas, but **DO NOT** apply to flat surfaces where human contact will occur. Apply as a

Crack & Crevice treatment to all baseboards, moldings, beneath floor coverings and carpets, closets, shelves, curtains, furniture, and picture frames. Direct spray into areas where bed bugs harbor. **DO NOT** use in patient rooms in hospitals and nursing homes for treatment of bed bugs. Reapply every 7 to 10 days, as needed, until infestation is eliminated.

Carpet Beetles (in Residences)

Hold product 36 inches above floor and direct spray toward floor and lower walls, treating at the rate of 10 seconds per 100 square feet. Also apply to cracks and crevices near the source of the infestation.

Clothes Moths

Locate source of infestation. Apply to nearby cracks and crevices and perform a space treatment of the infested area at the rate of 5 to 10 seconds per 1,000 cubic feet.

To protect woolens and other keratin containing materials, brush clean and then air out. Before treating the entire article, treat a small hidden area of fabric to determine if staining will occur. Treat thoroughly by holding dispenser \geq 18 inches from garment. Put treated articles in a darkened closet or other darkened storage such as cedar chests, storage drawers, or sealable plastic fabric bags. Clean and treat inside of closets or storage areas at the rate of 1 second per 10 square feet before putting treated materials away. Repeat treatment every 6 months or as needed. Dry clean treated clothes before wearing.

Stored Product Pests – For Exposed Adult and Larval Stages of Angoumois Grain Moths (crawling), Carpet Beetles, Chocolate Moths, Cigarette Beetles, Confused Flour Beetles, Drug Store Beetles, Grain Mites, Granary Weevils, Indianmeal Moths, Mediterranean Flour Moths (flying), Red Flour Beetles, Rice Weevils, and Sawtoothed Grain Beetles

Apply as a **Crack & Crevice**, direct spray, or space spray into cracks and crevices/corners of pantries, cabinets, food processing and handling equipment, and other places where insects harbor. Apply around cartons, containers, and other areas where these insects tend to congregate.

Fleas (in Buildings)

Hold container 36 inches above floor and direct spray toward floor and lower walls at the rate of 10 seconds per 100 square feet. Ensure that the underneath and lower surfaces of furniture are contacted. Keep area closed for 15 minutes. Open and thoroughly ventilate before reoccupying. Repeat treatment after 7 days if necessary.

Ticks

Hold container 36 inches above the floor and direct spray toward pet beds and resting quarters, treating at the rate of 10 seconds per 100 square feet. Apply as a **Crack & Crevice** treatment into adjacent cracks and crevices such as behind baseboards and edges of carpet and floor covers. Treat higher cracks such as upper door jams and window framing, behind pictures, and other areas where females may crawl to lay eggs.

Food Handling Establishments

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

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).

Apply according to specific directions for pest(s) to be treated. **DO NOT** make space spray applications to food areas when the facility is in operation. Prior to space spray applications, remove or cover exposed food and drinking water in the treatment area. Remove or cover dishes, utensils, food processing equipment, and food preparation surfaces in the treatment area or wash them before use.

Outdoor Treatments

Bees, Clover Mites, Cluster Flies, Flies, Gnats, Mosquitoes, Mud Daubers, and Wasps

Note: Outdoor applications are restricted to use on building surfaces and spot treatment on structures. Apply directly on insects and their nests on structures from approximately 18 inches. Disperse into hiding and breeding places (voids) contacting as many insects as possible.

Conditions of Sale and Warranty

The **Directions For Use** of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and must be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Ineffectiveness or other unintended consequences may result because of such factors as environmental conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. To the extent consistent with applicable law, all such risks 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 and User accept 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.

PCS915

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



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BASF Corporation
26 Davis Drive
Research Triangle Park, NC 27709



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1. Identification

Product identifier used on the label

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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: 458813
EPA Registration number: 499-290

2. Hazards Identification

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

Classification of the product

Eye Dam./Irrit.	2B	Serious eye damage/eye irritation
STOT SE	3 (Vapours may cause drowsiness and dizziness.)	Specific target organ toxicity — single exposure
Flam. Aerosol	1	Flammable aerosols

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Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H222	Extremely flammable aerosol.
H320	Causes eye irritation.
H336	May cause drowsiness or dizziness.

Precautionary Statements (Prevention):

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P280	Wear protective gloves.
P271	Use only outdoors or in a well-ventilated area.
P211	Do not spray on an open flame or other ignition source.
P251	Do not pierce or burn, even after use.
P260	Do not breathe dust/gas/mist/vapours.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P337 + P311	If eye irritation persists: Call a POISON CENTER or doctor/physician.
P362 + P364	Take off contaminated clothing and wash it before reuse.

Precautionary Statements (Storage):

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

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
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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: 0 - 1 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 5 - 7 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 6 - 7 % Inhalation - mist

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

Emergency overview

CAUTION:
EXTREMELY FLAMMABLE.
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
HARMFUL IF SWALLOWED.
HARMFUL IF ABSORBED THROUGH SKIN.
Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.
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	0.5 %	Pyrethrins
67-64-1	50.0 - 75.0%	Acetone
64742-47-8	1.0 - 3.0%	Distillates, petroleum
51-03-6	1.0 - 3.0%	Piperonylbutoxide
113-48-4	0.3 - 3.0%	n-Octyl bicycloheptene dicarboximide

4. First-Aid Measures

Description of first aid measures

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. Aspiration of this product during induced emesis can result in lung injury. If evacuation of stomach contents is considered necessary, use method least likely to cause aspiration, such as gastric lavage after endotracheal intubation.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
carbon dioxide, foam, dry powder, water spray

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Special hazards arising from the substance or mixture

Hazards during fire-fighting:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide,

Aerosol container contains flammable gas under pressure. Pressure inside container is increased when heated, and may cause explosion. 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.

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,

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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.

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/m3 ; TWA value 750 ppm 1,800 mg/m3 ; STEL value 1,000 ppm 2,400 mg/m3 ;
	ACGIH TLV	STEL value 500 ppm ; TWA value 250 ppm ;
carbon dioxide	OSHA PEL	PEL 5,000 ppm 9,000 mg/m3 ; STEL value 30,000 ppm 54,000 mg/m3 ; TWA value 10,000 ppm 18,000 mg/m3 ;
	ACGIH TLV	STEL value 30,000 ppm ; TWA value 5,000 ppm ;
Distillates, petroleum	ACGIH TLV	TWA value 200 mg/m3 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.

Advice on system design:

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

Personal protective equipment

RECOMMENDATIONS FOR MANUFACTURING, COMMERCIAL BLENDING, AND PACKAGING WORKERS:

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator. For situations where the airborne concentrations may exceed

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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:	liquid, aerosol
Odour:	characteristic, of acetone
Odour threshold:	Not determined due to potential health hazard by inhalation.
Colour:	amber, cloudy
pH value:	approx. 8 - 10 (1 %(m), 20 - 25 °C)
Flammability:	not applicable
Flammability of Aerosol	> 18 in (ASTM D 3065)
Products:	
NFPA 30B flammability:	Level 2 Aerosol
Lower explosion limit:	3.4 %(V) The product has not been tested. The statement has been derived from the properties of the individual components.
Upper explosion limit:	18 %(V) The product has not been tested. The statement has been derived from the properties of the individual components.
Autoignition:	350 °C The product has not been tested. The statement has been derived from the properties of the individual components.
Density:	approx. 0.86 g/cm3 (20 °C)
Vapour density:	not applicable

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Partitioning coefficient n-octanol/water (log Pow):	not applicable
Thermal decomposition:	carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide 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:	0.99 mPa.s (20 °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.

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.

Incompatible materials

No substances known that should be avoided.

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

Possible thermal decomposition products:

carbon monoxide, carbon dioxide, nitrogen dioxide, nitrogen oxide

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.

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Acute Toxicity/Effects

Acute toxicity

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

Oral

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

No mortality was observed.

Inhalation

Type of value: LC50

Species: rat

Value: > 7.4 mg/l

Type of value: LC50

Species: rat

Value: > 2.1 mg/l

No mortality was observed.

Dermal

Type of value: LD50

Species: rat

Value: > 2,000 mg/kg

No mortality was observed.

Assessment other acute effects

Assessment of STOT single:

Possible narcotic effects (drowsiness or dizziness).

Irritation / corrosion

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

Skin

Species: rabbit

Result: non-irritant

Eye

Species: rabbit

Result: moderately irritating

Sensitization

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

Species: guinea pig

Result: Non-sensitizing.

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

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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: n-Octyl bicycloheptene dicarboximide

Assessment of repeated dose toxicity: The substance may cause damage to the liver after repeated ingestion 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.

Carcinogenicity

Assessment of carcinogenicity: 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: IARC Group 3 (not classifiable as to human carcinogenicity).

In long-term animal studies in which the substance was given in high doses by feed, a carcinogenic effect was not observed.

Reproductive toxicity

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

Teratogenicity

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

Other Information

Misuse can be harmful to health.

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

Toxicity to fish

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Information on: pyrethrum

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

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

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

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.

Information on: dimethyl ether

No observed effect concentration (96 h) > 4,000 mg/l, Poecilia reticulata (other, semistatic)

The product is highly volatile. Tested in a closed test system.

Aquatic invertebrates

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

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).

Information on: dimethyl ether

No observed effect concentration (48 h) > 4,000 mg/l, Daphnia magna (other, static)

The product is highly volatile. Tested in a closed test system.

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.

Bioaccumulation potential

Information on: pyrethrum

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

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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.

Information on: n-Octyl bicycloheptene dicarboximide

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is expected.

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, EHS
Proper shipping name:	AEROSOLS (contains DIMETHYLETHER)

Sea transport

IMDG

Hazard class:	2.1
ID number:	UN 1950
Hazard label:	2.1, EHS
Marine pollutant:	YES
Proper shipping name:	AEROSOLS (contains DIMETHYLETHER)

Air transport

IATA/ICAO

Hazard class:	2.1
ID number:	UN 1950
Hazard label:	2.1
Proper shipping name:	AEROSOLS, FLAMMABLE (contains DIMETHYLETHER)

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15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US blocked / not listed

Crop Protection TSCA, US released / exempt

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

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>
5000 LBS	67-64-1	Acetone
100 LBS	115-10-6	dimethyl ether
1 LBS	8003-34-7	Pyrethrins

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
PA	67-64-1	Acetone
	115-10-6	dimethyl ether
	124-38-9	carbon dioxide
	64742-47-8	Distillates, petroleum
MA	67-64-1	Acetone
	115-10-6	dimethyl ether
	124-38-9	carbon dioxide
	64742-47-8	Distillates, petroleum
NJ	67-64-1	Acetone
	115-10-6	dimethyl ether
	124-38-9	carbon dioxide
	64742-47-8	Distillates, petroleum
	51-03-6	Piperonylbutoxide

NFPA Hazard codes:

Health : 1 Fire: 3 Reactivity: 1 Special:

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:
EXTREMELY FLAMMABLE.
KEEP OUT OF REACH OF CHILDREN.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
HARMFUL IF SWALLOWED.
HARMFUL IF ABSORBED THROUGH SKIN.

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Avoid contact with the skin, eyes and clothing.
Wash thoroughly after handling.
Aerosol container contains flammable gas under pressure.

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2016/11/17

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