

PT[®] Alpine[®]

SPECIMEN

Pressurized Insecticide

KILLS: Ants (including foraging Carpenter, Fire, Harvester and Pharaoh Ants), Asian Lady Beetles, Bed Bugs, Booklice, Boxelder Bugs, Brown Marmorated Stink Bugs, Centipedes, Clover Mites, Cluster Flies, Cockroaches, Crickets, Dermestids, Drugstore Beetles, Earwigs, Elm Leaf Beetles, Flour Beetles (Red and Confused), Fruit Flies, Grain Weevils, Indianmeal Moths, Millipedes, Phorid Flies, Pillbugs, Powder Post Beetles, Silverfish, Sowbugs, Spiders (excluding Black Widow), Springtails and Trogoderma

FOR USE IN AND AROUND: Apartments; Campgrounds; Homes; Hospitals; Hotels; Motels; Food and Non Food Areas of Food Handling Establishments, including Meat Packing and Food Processing Plants, Restaurants; Supermarkets; Nursing Homes; Resorts; Schools; Transportation Equipment (Buses, Boats, Ships, Trains, Trucks, Planes*); Utilities, Warehouses, and other Commercial and Industrial Buildings

*Use in cargo areas only. **DO NOT** use in aircraft cabins.

ACTIVE INGREDIENT:

Dinotefuran: N-methyl-N-[(tetrahydro-3-furanyl)methyl]guanidine 0.5%

OTHER INGREDIENTS: 99.5%

TOTAL: 100.0%

EPA Reg. No. 499-531

EPA Est. No.

KEEP OUT OF REACH OF CHILDREN CAUTION

See side panels for additional 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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PRECAUTIONARY STATEMENTS

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. **DO NOT** apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. **DO NOT** apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. **DO NOT** dispose equipment washwaters or rinsate into a natural drain or water body.

This product is toxic to honey bees. The persistence of residues and potential residual toxicity of Dinotefuran in nectar and pollen suggests the possibility of chronic toxic risk to honey bee larvae and the eventual instability of the hive.

- This product is toxic to bees exposed to residues for more than 38 hours following treatment.
- **DO NOT** apply this product to blooming, pollen-shedding or nectar-producing parts of plants if bees may forage on the plants during this time period, unless the application is made in response to a public health emergency declared by appropriate state or federal authorities.

Dinotefuran and its degradate, MNG, have the properties and characteristics associated with chemicals detected in groundwater. The high water solubility of Dinotefuran, and its degradate, MNG, coupled with its very high mobility, and resistance to biodegradation indicates that this compound has a strong potential to leach to the subsurface, under certain conditions, as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

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** spray on plastic, painted or varnished surfaces. **DO NOT** spray directly into any electronic equipment such as radios, televisions, computers, etc.

DIRECTIONS FOR USE

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

USE RESTRICTIONS

- Kills pests on contact. Pests must be directly contacted at time of application in order to be effective.
- **DO NOT** apply this product in hospital patient rooms or nursing home patient rooms while occupied by the patient.

- **DO NOT** apply to classrooms when in use.
- **DO NOT** apply to institutions (including daycare centers, libraries, sport facilities, etc.), in the immediate area, when occupants are present.
- **DO NOT** apply in aircraft cabins.

HOW TO USE BASF CRACK & CREVICE® INJECTION SYSTEM

CRACK & CREVICE TREATMENT: Use with the supplied actuator and injection tubes or other BASF equipment. Place injection tip into cracks, crevices, holes and other small openings where pests may be harboring, living and breeding. For light infestations, move injection tip along cracks while treating at the rate of 3 ft/sec. For heavy infestations, move injection tip along at 1 ft/sec. For closed voids, calculate the void's cubic area and treat at the rate of 1 to 5 sec/3 ft³. Several holes may be required in long-running voids. Reapply as necessary.

SPOT TREATMENT: Use with the supplied actuator and injection tubes or other BASF equipment. Hold container upright while spraying. Direct nozzle approx. 12" from surface to be treated. Apply directly on pests in these locations when possible. Reapply as necessary.

INDOOR TREATMENTS

CRAWLING INSECTS: Apply as a Crack & Crevice or spot treatment where pests are harboring, traveling or breeding. For example, openings around pipes and sinks, under refrigerators, pantries, behind baseboards, washing machines, stoves, cabinets, sewer, floor drains and meter boxes. In commercial areas, apply as a Crack & Crevice or spot treatment in office areas, stainless steel equipment, shelving, machinery, storage areas, pallets and other areas where pests may be harboring, traveling, breeding or entering the structure. Reapply as necessary.

BED BUGS: Apply where bed bugs harbor or are suspected of traveling. Treat the perimeter of the room at the wall/floor junction, behind and/or inside furniture, upholstered furniture, head boards, wall coverings and box springs. Allow furniture and box springs to dry before use. When treating furniture (i.e. sofas and chairs), **DO NOT** apply to areas with prolonged human contact. When treating luggage, apply only to empty luggage. Direct product into pockets, seams, folds and around wheels. Treat the perimeter of the area or room where items are stored. Allow surfaces to dry before use. Check for staining issues before treating by testing a small, inconspicuous area of the item to be treated. Reapply as necessary. **DO NOT** use this product on mattresses, pillows, bed linens or clothes. Not recommended for use as sole protection against bed bugs. If evidence of bed bugs is found in/on mattresses, use products approved for this use.

FOOD/FEED HANDLING ESTABLISHMENTS

Food/Feed handling establishments are places other than private residences in which food is held, processed, prepared or served, including those operating under the Federal meat, poultry, shell egg grading and egg products inspection programs. **APPLICATIONS OF THIS PRODUCT IN FOOD/FEED AREAS OF FOOD/FEED HANDLING ESTABLISHMENTS MAY BE MADE AS A CRACK & CREVICE, VOID, SPOT OR GENERAL TREATMENT.** General surface application may be used only when the facility is not in operation, provided exposed food/feed has been covered or removed from the area prior to application.

FOOD/FEED 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/FEED 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 packaging, canning or bottling).

Avoid contamination of food/feed or food/feed contact surfaces. Remove or cover food/feed, dishes, utensils, food processing equipment, and food preparation surfaces, in the treatment area, or wash them before use. Apply as a Crack & Crevice, void, spot or general treatment to selective surfaces such as baseboards, under elements of construction, stainless steel equipment, shelving, machinery, storage areas, pallets, tables, chairs and other areas where listed pests may be harboring, traveling, breeding or entering the structure. Maximum use rate = 0.05 g ai/linear ft. Reapplications may be made at 3 day intervals when applying as a Crack & Crevice, void or spot treatment, or at 6 day intervals when applying as a general treatment.

INDOOR AND OUTDOOR TREATMENTS

TO KILL FORAGING CARPENTER ANTS: Locate suspected infestation and/or insect tunnels and cavities. Drill pilot holes into insect tunnels, galleries and inaccessible closed voids. Drill holes 8 to 10" apart. Inject 5 to 10 sec/hole. Foraging carpenter ants must be directly contacted at time of application to be effective. Contact as many ants as possible. Non-residual treatment. Reapply as needed. **DO NOT** contact electrical wiring, plumbing, etc. when drilling and never use metal wood injectors where electrical shock could occur. Use a standard plastic void injector if there is danger of electrical contact.

ASIAN LADY BEETLES, BOXELDER BUGS, BROWN MARMORATED STINK BUGS, ELM LEAF BEETLES, CLUSTER FLIES AND CLOVER MITES: Apply as a Crack & Crevice or spot treatment where these pests may be harboring, traveling, breeding or entering the structure. For example, behind siding, wall voids, around windows and door frames. Reapply as necessary.

FLIES (FRUIT AND PHORID – adults and larvae): Treat cracks, crevices, voids, holes and small openings where these pests may be harboring, traveling, breeding or entering the structure. Pay particular attention to breeding sites and areas containing debris. Treatment of the catch basin area of drains is permitted, but **DO NOT** apply product directly down into drains or sewers. Crack & Crevice or spot treatment to the walls under manhole covers is also permitted. Reapply as necessary.

OUTDOOR TREATMENTS

DO NOT apply this product, by any application method, to linden, basswood or other *Tilia* species in the State of Oregon.

TREATMENT OF THE STRUCTURE FROM THE OUTSIDE: Treat where listed pests may be harboring, traveling, breeding or entering the structure. For example, weep holes; under siding; wall voids; soffits; around attic vents; cracks and crevices; openings around windows, doors and pipes; and landscape timbers. Treatment of infested fences and tree holes is permitted. Direct treatment of ant trails is also permitted.

ARGENTINE ANTS: To treat nests, inject the nest at 3 to 6 sites at a rate of 5 to 10 sec/site. For very large nests (over 12" diameter), increase the number of injection sites. Space injection sites in a circular pattern on the nest surface with 1 site in the center. To quiet active ants on nest surface, sweep surface with spray from a distance of 12". Treat new nests as they appear.

TO KILL FORAGING CARPENTER ANTS LIVING INSIDE TREES: Determine the highest and lowest elevation of the colony. Drill holes into colony at highest elevation and inject 5 to 10 sec. Do the same for lowest elevation. Drill intermediate holes every 4 ft between the upper and lower elevations if required. Foraging carpenter ants must be directly contacted at time of application to be effective. Contact as many ants as possible. Non-residual treatment. Reapply as necessary.

TO KILL FORAGING CARPENTER ANTS IN STUMPS, UTILITY POLES AND FENCES: Treat open holes or drill horizontal holes in a circular pattern where carpenter ants are suspected. Inject 2 to 5 sec of product/hole. Foraging carpenter ants must be directly contacted at time of application to be effective. Contact as many ants as possible. Non-residual treatment. Reapply as necessary.

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 and inaccessible to children.

PESTICIDE DISPOSAL: Wastes resulting from use of this product may be disposed of on site, in accordance with the label directions, or at an approved waste disposal facility.

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.

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.

PCS813

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Research Triangle Park, NC 27709



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1. Identification

Product identifier used on the label

ALPINE PRESSURIZED 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: 397463

EPA Registration number: 499-531

Synonyms: Dinotefuran

2. Hazards Identification

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

Classification of the product

STOT SE	3 (Vapours may cause drowsiness and dizziness.)	Specific target organ toxicity — single exposure
Aquatic Acute	3	Hazardous to the aquatic environment - acute
Aquatic Chronic	3	Hazardous to the aquatic environment - chronic
Flam. Aerosol	1	Flammable aerosols

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Label elements

Pictogram:



Signal Word:

Danger

Hazard Statement:

H222	Extremely flammable aerosol.
H229	Pressurized container: May burst if heated.
H336	May cause drowsiness or dizziness.
H402	Harmful to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

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.
P273	Avoid release to the environment.
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):

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
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.
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: 1 % dermal

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

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 2 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 2 % Inhalation - mist

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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>
165252-70-0	0.5 %	Dinotefuran
67-64-1	25.0 - 50.0%	2-Propanone
124-38-9	1.0 - 3.0%	carbon dioxide

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 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.

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.

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, water spray

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

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

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.

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

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 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.

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General safety and hygiene measures:

Handle in accordance with good 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:	aerosol	
Odour:	of acetone	
Odour threshold:	Not determined due to potential health hazard by inhalation.	
Colour:	colourless	
pH value:	approx. 8 - 10 (23 °C)	
Melting point:	approx. -95 °C	
Boiling range:	Information applies to the solvent. approx. 56 - 57 °C	
Flash point:	Information applies to the solvent. < -20 °C	(Regulation 440/2008/EC, A.9)
Flammability:	Extremely flammable.	
Flammability of Aerosol Products:	> 90 cm	(UN Test Sub- section 31.4)
NFPA 30B flammability:	Level 1 Aerosol	
Lower explosion limit:	approx. 2 %(V)	
Upper explosion limit:	Information applies to the propellant. approx. 27 %(V)	
Autoignition:	Information applies to the propellant. 630 °C	(Regulation 440/2008/EC, A.15)
SADT:	> 75 °C	
Vapour pressure:	approx. 5330 hPa (20 °C)	
Density:	Information applies to the propellant. approx. 0.95 g/cm ³ (20 °C)	
Vapour density:	2	
Partitioning coefficient n- octanol/water (log Pow):	Information based on the main components.	
Thermal decomposition:	not applicable	
Viscosity, dynamic:	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.	
Solubility in water:	approx. 1.75 mPa.s (approx. 21 °C)	
Evaporation rate:	soluble	
Other Information:	not applicable	
	If necessary, information on other physical and chemical parameters is indicated in this section.	

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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:

not fire-propagating (Regulation 440/2008/EC, A.21)

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

halogenated hydrocarbons

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, 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.

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

Value: > 5,000 mg/kg

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Inhalation

Type of value: LC50

Species: rat

Value: > 2.05 mg/l

No mortality was observed.

Dermal

Type of value: LD50

Species: rat

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

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: non-irritant

Sensitization

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

modified Buehler test

Species: guinea pig

Result: Non-sensitizing.

Aspiration Hazard

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

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: 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.

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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. The results of various animal studies gave no indication of a carcinogenic effect.

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: 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: carbon dioxide

Assessment of teratogenicity: The potential to cause toxicity to development cannot be excluded at maternally toxic doses.

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

Aquatic toxicity

Assessment of aquatic toxicity:

Harmful 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: Dinotefuran technical

LC50 (96 h) > 100 mg/l, Oncorhynchus mykiss

LC50 (96 h) > 100 mg/l, Cyprinus carpio

Aquatic invertebrates

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Information on: Dinotefuran technical
EC50 (48 h) > 1,000 mg/l, Daphnia magna
EC50 (96 h) 0.79 mg/l, Mysidopsis bahia

Aquatic plants

Information on: Dinotefuran technical
EC50 (72 h) 97.6 mg/l (biomass), Pseudokirchneriella subcapitata

Chronic toxicity to aquatic invertebrates

Information on: Dinotefuran technical
No observed effect concentration 0.089 mg/l, Mysidopsis bahia

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Information on: Dinotefuran technical

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.

Assessment bioaccumulation potential

Information on: Dinotefuran technical

Because of the n-octanol/water distribution coefficient (log Pow) 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: Dinotefuran technical

Following exposure to soil, the product trickles away and can - dependant on degradation - be transported to deeper soil areas with larger water loads.

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:

Must be disposed of or incinerated in accordance with local regulations.

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
Proper shipping name:	AEROSOLS

Sea transport

IMDG

Hazard class:	2.1
ID number:	UN 1950
Hazard label:	2.1
Marine pollutant:	NO
Proper shipping name:	AEROSOLS

Air transport

IATA/ICAO

Hazard class:	2.1
ID number:	UN 1950
Hazard label:	2.1
Proper shipping name:	AEROSOLS, FLAMMABLE

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

Chemical TSCA, US blocked / not listed

Biocide TSCA, US blocked / not listed

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

<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

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
MA	67-64-1	Acetone
	115-10-6	dimethyl ether
	124-38-9	carbon dioxide
NJ	67-64-1	Acetone
	115-10-6	dimethyl ether
	124-38-9	carbon dioxide

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.
KEEP OUT OF REACH OF DOMESTIC ANIMALS.
Flammable Liquid

Aerosol container contains flammable gas under pressure.

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2018/07/10

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

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