

SAFETY DATA SHEET

Pyrethrin Fogger

SDS # : 6597-A
Revision date: 2015-04-14
Format: NA
Version 1.01



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Pyrethrin Fogger

Other means of identification

Product Code(s) 6597-A

Synonyms (Z)-(S)-2-methyl-4-oxo-3-(penta-2,4-dienyl)cyclopent-2-enyl
(1R,3R)-2,2-dimethyl-3-(2-methylprop-1-enyl)cyclopropanecarboxylate
5-[2-(2-butoxyethoxy)ethoxymethyl]-6-propyl-1,3-benzodioxole;
5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-1,3-benzodioxole
N-(2-ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide;
2-(2-ethylhexyl)-3a,4,7,7a-tetrahydro-4,7-methano-1H-isoindole-1,3(2H)-dione

Active Ingredient(s) Pyrethrins, Piperonyl Butoxide, n-Octyl bicycloheptene dicarboximide (MGK264)

Chemical Family Pyrethrins

Recommended use of the chemical and restrictions on use

Recommended Use: Insecticide

Restrictions on Use: Use as recommended by the label

Manufacturer Address

FMC Corporation
1735 Market Street
Philadelphia, PA 19103
(215) 299-6000 (General Information)
msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

For leak, fire, spill or accident emergencies, call:
1 800 / 424 9300 (CHEMTREC - U.S.A.)
1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)
Medical Emergencies:
1 800 / 331-3148 (PROSAR - U.S.A. & Canada)
1 651 / 632-6793 (PROSAR - All Other Countries - Collect)

2. HAZARDS IDENTIFICATION

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)


Acute toxicity - Inhalation (Dusts/Mists)

Category 4

| | |
|--------------------|------------|
| Skin sensitization | Category 1 |
| Flammable Aerosols | Category 1 |

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

| |
|---|
| <p>Danger</p> <p>Hazard Statements H317 - May cause an allergic skin reaction H332 - Harmful if inhaled</p> <p>Physical Hazards H222 - Extremely flammable aerosol H229 - Pressurized container: May burst if heated</p>  |
|---|

Precautionary Statements - Prevention

P261 - Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray
 P272 - Contaminated work clothing should not be allowed out of the workplace
 P280 - Wear protective gloves
 P210 - Keep away from heat/sparks/open flames/hot surfaces. - No smoking
 P211 - Do not spray on an open flame or other ignition source
 P251 - Do not pierce or burn, even after use
 P302 + P352 - IF ON SKIN: Wash with plenty of water and soap
 P333 + P313 - If skin irritation or rash occurs: Get medical advice/ attention
 P363 - Wash contaminated clothing before reuse
 P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing
 P312 - Call a POISON CENTER or doctor if you feel unwell

Precautionary Statements - Storage

P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F

Precautionary Statements - Disposal

P501 - Dispose of contents/ container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

No information available

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family Pyrethrins.

| Chemical name | CAS-No | Weight % |
|---|------------|----------|
| n-Octyl bicycloheptene dicarboximide | 113-48-4 | 1.0 |
| Piperonyl butoxide | 51-03-6 | 1.0 |
| Pyrethrins | 8003-34-7 | 0.5 |
| Propane | 74-98-6 | 10-20 |
| Butane | 106-97-5 | 5-10 |
| Petroleum distillates, hydrotreated light | 64742-47-8 | 5-10 |
| Isobutane | 75-28-5 | 5-10 |

Synonyms are provided in Section 1.

4. FIRST AID MEASURES

| | |
|---|--|
| Eye Contact | Hold eyes open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for further treatment advice. |
| Skin Contact | Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for further treatment advice. |
| Inhalation | Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice. |
| Ingestion | 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 induce vomiting or give anything by mouth to an unconscious person. |
| Most important symptoms and effects, both acute and delayed | None known. |
| Indication of immediate medical attention and special treatment needed, if necessary | Treat symptomatically. |

5. FIRE-FIGHTING MEASURES

| | |
|--|--|
| Suitable Extinguishing Media | Foam. Carbon dioxide (CO ₂). Dry chemical. Water spray. |
| Specific Hazards Arising from the Chemical | Contents under pressure. |
| Explosion data | |
| Sensitivity to Mechanical Impact | Not sensitive. |
| Sensitivity to Static Discharge | Not sensitive. |
| Protective equipment and precautions for firefighters | Isolate fire area. Evaluate downwind. In the event of fire, wear self contained breathing apparatus. |

6. ACCIDENTAL RELEASE MEASURES

| | |
|----------------------------------|---|
| Personal Precautions | Isolate and post spill area. Remove all sources of ignition. Ventilate the area. Wear suitable protective clothing, gloves and eye/face protection. For personal protection see section 8. If ventilation is not possible wear full protection suit and chemical protective equipment. |
| Other | For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above. |
| Environmental Precautions | See Section 12 for additional Ecological Information. |
| Methods for Containment | Prevent further leakage or spillage if safe to do so. |
| Methods for cleaning up | Transfer damaged cartridges or cans to containers for later disposal. Clean and neutralize spill area, tools and equipment by washing with bleach water and soap. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in Section 13. Rinsate may be disposed at a waste water treatment plant. |

7. HANDLING AND STORAGE

Pyrethrin Fogger

SDS # : 6597-A
Revision date: 2015-04-14
Version 1.01

Handling Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal. BEWARE: Aerosol is pressurized. Keep away from direct sun exposure and temperatures over 130°F. Do not open by force or throw into fire even after use. Do not spray on flames or red-hot objects.

Storage Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources of ignition. Keep out of reach of children and animals. Keep/store only in original container.

Incompatible products Strong oxidizing agents. Bases. Powdered earth metals.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

| Chemical name | ACGIH TLV | OSHA PEL | NIOSH | Mexico |
|--|------------------------------------|--|--|--|
| Pyrethrins 8003-34-7 | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | IDLH: 5000 mg/m ³ TWA: 5 mg/m ³ | Mexico: TWA 5 mg/m ³ Mexico: STEL 10 mg/m ³ |
| Propane 74-98-6 | TWA: 1000 ppm | TWA: 1000 ppm TWA: 1800 mg/m ³ | IDLH: 2100 ppm TWA: 1000 ppm TWA: 1800 mg/m ³ | - |
| Isobutane 75-28-5 | STEL 1000 ppm | - | TWA: 800 ppm TWA: 1900 mg/m ³ | - |
| Chemical name | British Columbia | Quebec | Ontario TWAEV | Alberta |
| Pyrethrins 8003-34-7 | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ |
| Propane 74-98-6 | TWA: 1000 ppm | TWA: 1000 ppm TWA: 1800 mg/m ³ | TWA: 1000 ppm | TWA: 1000 ppm |
| Petroleum distillates, hydrotreated light 64742-47-8 | TWA: 200 mg/m ³ Skin | - | - | - |
| Isobutane 75-28-5 | TWA: 1000 ppm | - | TWA: 800 ppm TWA: 1000 ppm | - |

Appropriate engineering controls

Engineering measures Apply technical measures to comply with the occupational exposure limits. When working in confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and wear the recommended equipment.

Individual protection measures, such as personal protective equipment

Eye/Face Protection If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin and Body Protection Wear long-sleeved shirt, long pants, socks, and shoes.

Hand Protection Protective gloves

Respiratory Protection If exposure limits are exceeded or irritation is experienced, NIOSH/MSHA approved respiratory protection should be worn. Respiratory protection must be provided in accordance with current local regulations.

Hygiene measures Clean water should be available for washing in case of eye or skin contamination. Wash skin prior to eating, drinking, chewing gum or using tobacco. Shower or bathe at the end of working. Remove and wash contaminated clothing before re-use. Launder work clothing separately from regular household laundry.

General information If the product is used in mixtures, it is recommended that you contact the appropriate protective equipment suppliers. These recommendations apply to the product as supplied.

9. PHYSICAL AND CHEMICAL PROPERTIES**Information on basic physical and chemical properties**

| | |
|------------------------------|--------------------------|
| Appearance | No information available |
| Physical State | Aerosol |
| Color | No information available |
| Odor | Slight Pyrethrins |
| Odor threshold | No information available |
| pH | 7.0 |
| Melting point/freezing point | Not applicable |
| Boiling Point/Range | No information available |
| Flash point | 2.8-3.3 °C / 37-38 °F |
| Evaporation Rate | No information available |
| Flammability (solid, gas) | No information available |
| Flammability Limit in Air | |
| Upper flammability limit: | No information available |
| Lower flammability limit: | No information available |
| Vapor pressure | No information available |
| Vapor density | No information available |
| Density | 8 lb/gal |
| Specific gravity | No information available |
| Water solubility | Soluble in water |
| Solubility in other solvents | No information available |
| Partition coefficient | No information available |
| Autoignition temperature | No information available |
| Decomposition temperature | No information available |
| Viscosity, kinematic | No information available |
| Viscosity, dynamic | No information available |
| Explosive properties | No information available |
| Oxidizing properties | No information available |
| Molecular weight | No information available |
| Bulk density | No information available |

10. STABILITY AND REACTIVITY

| | |
|------------------------------------|--|
| Reactivity | Not applicable |
| Chemical Stability | Stable under recommended storage conditions. |
| Possibility of Hazardous Reactions | None under normal processing. |
| Hazardous polymerization | Hazardous polymerization does not occur. |
| Conditions to avoid | Keep away from open flames, hot surfaces and sources of ignition |
| Incompatible materials | Strong oxidizing agents. Bases. Powdered earth metals. |
| Hazardous Decomposition Products | Carbon dioxide (CO ₂). Carbon monoxide (CO). |

11. TOXICOLOGICAL INFORMATION**Product Information**

| | |
|-----------------------------------|--------------------------------------|
| LD50 Oral | > 5000 mg/kg |
| LD50 Dermal | > 5000 mg/kg |
| LC50 Inhalation | > 2.11 mg/L 4 hr |
| Serious eye damage/eye irritation | Slightly or non-irritating (rabbit). |
| Skin corrosion/irritation | Slightly or non-irritating (rabbit). |
| Sensitization | Sensitizer. |

Information on toxicological effects

Symptoms Symptoms of overexposure may be headache, dizziness, tiredness, nausea and vomiting. Intentional misuse by deliberately concentrating and inhaling contents may be harmful or fatal.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Mutagenicity Piperonyl butoxide ether may affect mammalian liver microsomal detoxification enzymes.
Carcinogenicity n-Octyl bicycloheptene dicarboximide was negative in a chromosome aberration assay,.
Reproductive toxicity Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).
STOT - single exposure No information available.
STOT - repeated exposure Not classified.
Target organ effects Not classified.
 Mice fed 0.3 or 0.9% piperonyl butoxide in the diet for 20 days had increased liver weight and other signs of liver toxicity. Male rats given up to 2.4% of piperonyl butoxide in the diet for up to 12 weeks had clinical and histologic signs of liver damage; the highest dose group showed preneoplastic changes, including enlargement of hepatocyte nuclei and multinucleated cells. Kidney damage was also seen.

Aspiration hazard No information available.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|-------------------------------|-------|---------|-----|------|
| Piperonyl butoxide 51-03-6 | | Group 3 | | |

12. ECOLOGICAL INFORMATION

Ecotoxicity

| Piperonyl butoxide (51-03-6) | | | | |
|------------------------------|----------|----------------|-------|--------|
| Active Ingredient(s) | Duration | Species | Value | Units |
| Piperonyl Butoxide | LC50 | Fish | 3.94 | ppm |
| | LD50 | Bee | 25 | µg/bee |
| | LD50 | Bobwhite quail | >2250 | mg/kg |
| | LD50 | Mallard duck | >5620 | ppm |

Persistence and degradability No information available.

Bioaccumulation No information available.

13. DISPOSAL CONSIDERATIONS

Waste disposal methods Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes cannot be disposed of by use according to label instructions, contact appropriate disposal authorities for guidance.

Contaminated Packaging Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT USDOT is requiring that products formerly classified as "Consumer Commodity, ORM-D" transition to "Limited Quantity" by 12/31/2020. During the transition period the 49CFR carton shipping marks may be Consumer Commodity (old) or Limited Quantity Diamond (new). Please prepare shipping documents to match the carton mark.

Proper Shipping Name Consumer commodity
Hazard class ORM-D

TDG

Pyrethrin Fogger

SDS # : 6597-A
Revision date: 2015-04-14
Version 1.01

UN/ID no UN1950
Proper Shipping Name Aerosols
Hazard class 2.1
Description UN1950, Aerosols, 2.1

ICAO/IATA

UN/ID no ID8000
Proper Shipping Name Consumer commodity
Hazard class 9

IMDG/IMO

UN/ID no UN1950
Proper Shipping Name Aerosols
Hazard class 2
EmS No. F-D, S-U
Description UN1950, Aerosols, 2.1

15. REGULATORY INFORMATION

U.S. Federal Regulations

SARA 313

Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 (SARA). This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

| Chemical name | CAS-No | Weight % | SARA 313 - Threshold Values % |
|------------------------------|---------|----------|-------------------------------|
| Piperonyl butoxide - 51-03-6 | 51-03-6 | 1.002 | 1.0 |

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic health hazard Yes
Fire hazard No
Sudden release of pressure hazard No
Reactive Hazard No

Clean Water Act

This product contains the following substances which are regulated pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42):

| Chemical name | CWA - Reportable Quantities | CWA - Toxic Pollutants | CWA - Priority Pollutants | CWA - Hazardous Substances |
|-------------------------|-----------------------------|------------------------|---------------------------|----------------------------|
| Pyrethrins 8003-34-7 | 1 lb | | | |

CERCLA

This material, as supplied, contains one or more substances regulated as a hazardous substance under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302):

| Chemical name | Hazardous Substances RQs | Extremely Hazardous Substances RQs | RQ |
|-------------------------|--------------------------|------------------------------------|--|
| Pyrethrins 8003-34-7 | 1 lb | | RQ 1 lb final RQ RQ 0.454 kg final RQ |

FIFRA Information

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. Following is the hazard information as required on the pesticide label:

CAUTION

Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

Pyrethrin Fogger

SDS # : 6597-A
 Revision date: 2015-04-14
 Version 1.01

US State Regulations

California Proposition 65

This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

| Chemical name | New Jersey | Massachusetts | Pennsylvania |
|-------------------------------|------------|---------------|--------------|
| Piperonyl butoxide 51-03-6 | X | | |
| Pyrethrins 8003-34-7 | X | X | X |
| Propane 74-98-6 | X | X | X |
| Isobutane 75-28-5 | X | X | X |

International Inventories

| Component | TSCA (United States) | DSL (Canada) | EINECS/ELI NCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|---|-------------------------|-----------------|-------------------------------|-----------------|------------------|-----------------|------------------------|---------------------|
| n-Octyl bicycloheptene dicarboximide 113-48-4 (1.0) | | X | X | X | X | | X | X |
| Piperonyl butoxide 51-03-6 (1.0) | X | X | X | X | X | X | X | X |
| Pyrethrins 8003-34-7 (0.5) | | X | X | | X | X | X | X |
| Propane 74-98-6 (10-20) | X | X | X | X | X | X | X | X |
| Petroleum distillates, hydrotreated light 64742-47-8 (5-10) | X | X | X | X | X | X | X | X |
| Isobutane 75-28-5 (5-10) | X | X | X | X | X | X | X | X |

WHMIS Hazard Class

A - Compressed gases
 B5 - Flammable aerosol



16. OTHER INFORMATION

| | | | | |
|------|-------------------|----------------|-------------------|-----------------------|
| NFPA | Health Hazards 1 | Flammability 4 | Instability 0 | Special Hazards - |
| HMIS | Health Hazards 1* | Flammability 4 | Physical hazard 0 | Personal Protection X |

NFPA/HMIS Ratings Legend * - Chronic hazard

Revision date: 2015-04-14
 Revision note: Format Change

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End of Safety Data Sheet