

SAFETY DATA SHEET
PURGE® III INSECTICIDE

SDS # : 6586-A
Revision date: 2017-12-13
Format: NA
Version 1.04



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name PURGE® III INSECTICIDE

Other means of identification

Product Code(s) 6586-A

Synonyms PIPERONYL BUTOXIDE: Butylcarbityl(6-propylpiperonyl) ether, 1,3-Benzodioxole, 5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-;

, N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE:
N-(2-ethylhexyl)-5-norbornene-2,3-dicarboximide;
N-(2-ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide;

, Pyrethrins

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

PCP # 30616

Recommended use of the chemical and restrictions on use

Recommended Use: Insecticide

Restrictions on Use: Use as recommended by the label

Supplier Address

FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104
(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 / 741-5970 (CHEMTREC - International)
1 703 / 527 3887 (CHEMTREC - Alternate)

Medical Emergencies:
1 800 / 331-3148 (ProPharma Group - U.S.A. & Canada)
1 651 / 632-6793 (ProPharma Group - 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 |
| Aspiration toxicity | Category 1 |
| Flammable Aerosols | Category 2 |
| Gases Under Pressure | Compressed Gas |

GHS Label elements, including precautionary statements**EMERGENCY OVERVIEW**

| |
|--|
| <p>Danger</p> <p>Hazard Statements H304 - May be fatal if swallowed and enters airways H332 - Harmful if inhaled</p> <p>Physical Hazards H223 - Flammable aerosol H280 - Contains gas under pressure; may explode if heated</p>  |
|--|

Precautionary Statements - Prevention

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray
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
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
P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor
P331 - Do NOT induce vomiting

Precautionary Statements - Storage

P405 - Store locked up
P410 + P403 - Protect from sunlight. Store in a well-ventilated place
P412 - 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 name | CAS-No | Weight % |
|---|------------|----------|
| 1,1-Difluoroethane | 75-37-6 | 40-50 |
| Petroleum distillates, hydrotreated light | 64742-47-8 | 30-40 |
| Petroleum gases, liquified, sweetened | 68476-86-8 | 10-20 |
| n-Octyl bicycloheptene dicarboximide | 113-48-4 | 3.05 |
| Piperonyl butoxide | 51-03-6 | 1.95 |
| Pyrethrins | 8003-34-7 | 0.975 |

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 | Central nervous system effects. |
| Indication of immediate medical attention and special treatment needed, if necessary | Contains petroleum distillate. Vomiting may cause aspiration pneumonia. 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 | No information available. |
| Sensitivity to Static Discharge | No information available. |
| Protective equipment and precautions for firefighters | Isolate fire area. Evaluate upwind. 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 | Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains. |
| 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 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

| | |
|------------------------------|---|
| 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 |
| Chemical name | British Columbia | Quebec | Ontario TWAEV | Alberta |
| Petroleum distillates, hydrotreated light (64742-47-8) | TWA: 200 mg/m ³ Skin | - | - | - |
| Pyrethrins (8003-34-7) | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ | TWA: 5 mg/m ³ |

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 | Rubber/latex/neoprene or other suitable chemical resistant 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 | Clear, Aerosolized liquid |
| Physical State | Liquid Aerosol |
| Color | Clear |
| Odor | No information available |
| Odor threshold | No information available |

| | |
|------------------------------|---|
| pH | No information available |
| Melting point/freezing point | Not applicable |
| Boiling Point/Range | No information available |
| Flash point | > 85 °C / > 185 °F (8-inch Flame Extension) |
| 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 | 6.9 lb/gal |
| Specific gravity | No information available |
| Water solubility | No information available |
| 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 | None under normal use conditions. |
| 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 oxides (COx), hydrogen fluoride, Carbonyl fluoride. |

11. TOXICOLOGICAL INFORMATION

Product Information

| | |
|-----------------------------------|--------------------------------------|
| LD50 Oral | 2140 mg/kg (rat) |
| LD50 Dermal | > 2000 mg/kg (rabbit) |
| LC50 Inhalation | 2.5 mg/L 4 hr (rat) |
| Serious eye damage/eye irritation | Slightly or non-irritating (rabbit). |
| Skin corrosion/irritation | Slightly or non-irritating (rabbit). |
| Sensitization | Non-sensitizing |

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. n-Octyl bicycloheptene dicarboximide was negative in a chromosome aberration assay, Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH). |
| Carcinogenicity | Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH). |
| Reproductive toxicity | No information available. |
| STOT - single exposure | Not classified. |

**STOT - repeated exposure
 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

Potential for aspiration if swallowed. May be fatal if swallowed and enters airways.

| Chemical name | ACGIH | IARC | NTP | OSHA |
|-------------------------------|-------|----------|-----|------|
| Piperonyl butoxide 51-03-6 | | Group 3 | | |
| Pyrethrins 8003-34-7 | | Group 2A | | |

Legend:

IARC (International Agency for Research on Cancer)
 Group 2A - Probably Carcinogenic to Humans
 Group 3 - Not classifiable as to its carcinogenicity to humans

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 |

| Chemical name | Toxicity to algae | Toxicity to fish | Toxicity to daphnia and other aquatic invertebrates |
|-------------------------|-------------------|---|---|
| Pyrethrins 8003-34-7 | | 96 h LC50: = 0.054 mg/L (Oncorhynchus mykiss) 96 h LC50: 0.02 - 0.03 mg/L (Oncorhynchus mykiss) static 96 h LC50: = 0.074 mg/L (Lepomis macrochirus) 96 h LC50: 0.0425 - 0.121 mg/L (Pimephales promelas) flow-through 96 h LC50: 0.003 - 0.0046 mg/L (Lepomis macrochirus) flow-through 96 h LC50: 0.224 - 0.458 mg/L (Pimephales promelas) static 96 h LC50: 0.0031 - 0.0038 mg/L (Oncorhynchus mykiss) flow-through 96 h LC50: 0.0322 - 0.0472 mg/L (Lepomis macrochirus) static | |

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. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

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.

Packaging Type 7.3 oz Containers
Proper Shipping Name Consumer commodity
Hazard class ORM-D

TDG
UN/ID no UN1950
Proper Shipping Name Aerosols
Hazard class 2.1
Description UN1950, Aerosols (1-1-Difluroethane, Isopropyl alcohol), 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 2.1
EmS No. F-D, S-U
Description UN1950, Aerosols (1-1-Difluoroethane, Isopropyl alcohol), 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 | 1.95 | 1.0 |

SARA 311/312 Hazard Categories

Acute health hazard Yes
Chronic health hazard Yes
Fire hazard Yes
Sudden release of pressure hazard Yes
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):

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

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

Contains petroleum distillate. Harmful if absorbed through the skin.

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 |
|-------------------------------|------------|---------------|--------------|
| 1,1-Difluoroethane 75-37-6 | X | X | |
| Piperonyl butoxide 51-03-6 | X | | |
| Pyrethrins 8003-34-7 | X | X | X |

International Inventories

| Chemical name | TSCA (United States) | DSL (Canada) | EINECS/ELINCS (Europe) | ENCS (Japan) | China (IECSC) | KECL (Korea) | PICCS (Philippines) | AICS (Australia) |
|---|----------------------|--------------|------------------------|--------------|---------------|--------------|---------------------|------------------|
| 1,1-Difluoroethane 75-37-6 | X | X | X | X | X | X | X | X |
| Petroleum distillates, hydrotreated light 64742-47-8 | X | X | X | | X | X | X | X |
| Petroleum gases, liquified, sweetened 68476-86-8 | X | X | X | | X | X | X | X |
| n-Octyl bicycloheptene dicarboximide 113-48-4 | | X | X | X | X | | X | X |
| Piperonyl butoxide 51-03-6 | X | X | X | X | X | X | X | X |
| Pyrethrins 8003-34-7 | | X | X | | X | X | X | X |

Mexico - Grade

Moderate risk, Grade 2

| Chemical name | Carcinogen Status | Mexico |
|---------------|-------------------|--|
| Pyrethrins | | Mexico: TWA 5 mg/m ³ Mexico: STEL 10 mg/m ³ |

| Chemical name | Mexico - Pollutant Release and | Pollutant Release and Transfer |
|---------------|--------------------------------|--------------------------------|
|---------------|--------------------------------|--------------------------------|

