

**SAFETY DATA SHEET**  
**Dos Flea and Crawling Insect Spray**

**SDS # :** 7607-A  
**Revision date:** 2015-04-17  
**Format:** NA  
**Version** 1



**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Identifier**

**Product Name** Dos Flea and Crawling Insect Spray

**Other means of identification**

**Product Code(s)** 7607-A

**Synonyms** Pyrethrins and Pyrethroids, Pyrethrum

PERMETHRIN: 3-Phenoxybenzyl  
(1RS)-cis,trans-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate

**Active Ingredient(s)** Pyrethrins, Permethrin, n-Octyl bicycloheptene dicarboximide (MGK264), Pyriproxyfen

**Chemical Family** Pyrethrins, Pyrethroid Pesticide

**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
Specific target organ toxicity (single exposure)	Category 2
Specific target organ toxicity (repeated exposure)	Category 2
Aerosols	Category 3


**GHS Label elements, including precautionary statements**

**EMERGENCY OVERVIEW**

**Warning**

**Hazard Statements**  
 H332 - Harmful if inhaled  
 H371 - May cause damage to organs  
 H373 - May cause damage to organs through prolonged or repeated exposure

**Physical Hazards**  
 H229 - Pressurized container: May burst if heated



**Precautionary Statements - Prevention**

- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P264 - Wash face, hands and any exposed skin thoroughly after handling
- P270 - Do not eat, drink or smoke when using this product
- 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

**Precautionary Statements - Response**

- P308 + P311 - IF exposed or concerned: Call a POISON CENTER or doctor
- 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**

- P405 - Store locked up
- P410 + P412 - Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F

**Precautionary Statements - Disposal**

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

**Hazards not otherwise classified (HNOC)**

No hazards not otherwise classified were identified.

**Other Information**

Very toxic to aquatic life with long lasting effects

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Family** Pyrethrins, Pyrethroid Pesticide.

Chemical name	CAS-No	Weight %
n-Octyl bicycloheptene dicarboximide	113-48-4	0.25
Permethrin	52645-53-1	0.20
Pyrethrins	8003-34-7	0.05
Pyriproxyfen	95737-68-1	0.02
Petroleum gases, liquified, sweetened	68476-86-8	10-20

Synonyms are provided in Section 1.

**4. FIRST AID MEASURES**

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	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.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. 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.
<b>Most important symptoms and effects, both acute and delayed</b>	None known.
<b>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically.

**5. FIRE-FIGHTING MEASURES**

<b>Suitable Extinguishing Media</b>	Foam. Carbon dioxide (CO <sub>2</sub> ). Dry chemical.
<b>Specific Hazards Arising from the Chemical</b>	Contents under pressure. Temperatures (>130°F) may cause bursting. Keep containers cool to avoid bursting. Contents under pressure. This aerosol is NOT classified as FLAMMABLE by the flame extension test method described in 16 CFR 1500.45.
<b>Hazardous Combustion Products</b>	Under fire conditions, this product may support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides. Chlorine gas and hydrogen chloride may also be formed under fire conditions.
<b><u>Explosion data</u></b>	
<b>Sensitivity to Mechanical Impact</b>	Not sensitive.
<b>Sensitivity to Static Discharge</b>	Not sensitive.
<b>Protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

**6. ACCIDENTAL RELEASE MEASURES**

<b>Personal Precautions</b>	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.
<b>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<b>Environmental Precautions</b>	See Section 12 for additional Ecological Information.
<b>Methods for Containment</b>	Prevent further leakage or spillage if safe to do so.
<b>Methods for cleaning up</b>	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**

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<b>Handling</b>	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.
<b>Storage</b>	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.
<b>Incompatible products</b>	No information available Strong acids, Strong bases, Strong oxidizing agents.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Pyrethrins 8003-34-7	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	IDLH: 5000 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	Mexico: TWA 5 mg/m <sup>3</sup> Mexico: STEL 10 mg/m <sup>3</sup>
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Pyrethrins 8003-34-7	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>	TWA: 5 mg/m <sup>3</sup>

### 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

<b>Eye/Face Protection</b>	If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.
<b>Skin and Body Protection</b>	Wear long-sleeved shirt, long pants, socks, and shoes.
<b>Hand Protection</b>	Protective gloves
<b>Respiratory Protection</b>	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.
<b>Hygiene measures</b>	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.
<b>General information</b>	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

<b>Appearance</b>	Milky emulsion
<b>Physical State</b>	Aerosolized liquid
<b>Color</b>	Creamy white
<b>Odor</b>	Solvent
<b>Odor threshold</b>	No information available
<b>pH</b>	6.6 (non-volatiles)
<b>Melting point/freezing point</b>	Not applicable
<b>Boiling Point/Range</b>	No information available

<b>Flash point</b>	Not applicable
<b>Evaporation Rate</b>	No information available
<b>Flammability (solid, gas)</b>	No information available
<b>Flammability Limit in Air</b>	
<b>Upper flammability limit:</b>	No information available
<b>Lower flammability limit:</b>	No information available
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Density</b>	8.22 lb/gal (non-volatiles)
<b>Specific gravity</b>	0.994 @ 21.9 °C [Specific gravity measurement is for the aerosol contents less the compressed gas propellant (i.e., non-volatiles)]
<b>Water solubility</b>	Partially miscible in water. [Water solubility analysis is for the aerosol contents less the compressed gas propellant (i.e., non-volatiles)].
<b>Solubility in other solvents</b>	No information available
<b>Partition coefficient</b>	No information available
<b>Autoignition temperature</b>	No information available
<b>Decomposition temperature</b>	No information available
<b>Viscosity, kinematic</b>	No information available
<b>Viscosity, dynamic</b>	5.5 cps
<b>Explosive properties</b>	No information available
<b>Oxidizing properties</b>	No information available
<b>Molecular weight</b>	No information available
<b>Bulk density</b>	No information available

## 10. STABILITY AND REACTIVITY

<b>Reactivity</b>	Not applicable
<b>Chemical Stability</b>	Stable under recommended storage conditions.
<b>Possibility of Hazardous Reactions</b>	None under normal processing.
<b>Hazardous polymerization</b>	Hazardous polymerization does not occur.
<b>Conditions to avoid</b>	Heat, flames and sparks
<b>Incompatible materials</b>	No information available.
<b>Hazardous Decomposition Products</b>	Under fire conditions, this product may support combustion and may decompose to give off toxic gases such as carbon monoxide, carbon dioxide, and nitrogen oxides. Chlorine gas and hydrogen chloride may also be formed under fire conditions.

## 11. TOXICOLOGICAL INFORMATION

### Product Information

<b>LD50 Oral</b>	> 5000 mg/kg (rat)
<b>LD50 Dermal</b>	> 5000 mg/kg (rabbit)
<b>LC50 Inhalation</b>	> 2.18 mg/L
<b>Serious eye damage/eye irritation</b>	Moderately irritating (rabbit).
<b>Skin corrosion/irritation</b>	Minimally irritating.
<b>Sensitization</b>	Non-sensitizer

### Information on toxicological effects

**Symptoms** No information available.

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

**Chronic toxicity** Permethrin: Effects are expected to be similar to those that are seen with acute toxicity.  
**Mutagenicity** Permethrin: Not genotoxic in animal studies

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**Carcinogenicity** Permethrin: Evidence of tumors in mice but is not considered relevant to humans.  
**Neurological effects** Permethrin: Clinical signs of neurotoxicity include altered motor activity and FOB effects, with no signs of histopathology.  
**Reproductive toxicity** Permethrin: No toxicity to reproduction in animal studies.  
**Developmental toxicity** Permethrin: Not teratogenic in animal studies.  
**STOT - single exposure** May cause damage to organs.  
**STOT - repeated exposure** May cause damage to organs through prolonged or repeated exposure.  
**Target organ effects** Permethrin: Central Nervous System.  
**Neurological effects** Permethrin: Clinical signs of neurotoxicity include altered motor activity and FOB effects, with no signs of histopathology.  
**Aspiration hazard** No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Permethrin 52645-53-1		Group 3		

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

Permethrin (52645-53-1)				
Active Ingredient(s)	Duration	Species	Value	Units
Permethrin	48 h EC50	Crustacea	0.001	mg/L
	72 h EC50	Algae	0.0125	mg/L
	96 h LC50	Fish	0.79	µg/L
	21 d NOEC	Crustacea	0.039	µg/L
	96 hr NOEC	Algae	0.9	µg/L
	21 d NOEC	Fish	0.3	µg/L

**Persistence and degradability** No data is available on the product itself.

**Bioaccumulation** No information available.

**Mobility** 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. Do not puncture or incinerate container.

Empty containers can be disposed of with ordinary household trash, as per label recommendations. If container is partially filled, call your local solid waste agency for disposal instructions.

**Contaminated Packaging** Containers must be disposed of in accordance with local, state and federal regulations. Refer to the product label for container disposal instructions. Nonrefillable container. Do not reuse or refill this container.

**California Hazardous Waste Codes** 232

## 14. TRANSPORT INFORMATION

**DOT** The packaging type listed below may be shipped as a Limited Quantity. Each carton must be marked with the Limited Quantity label.

**UN/ID no** UN1950  
**TDG**

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UN/ID no UN1950  
Proper Shipping Name Aerosols, non-flammable  
Hazard class 2.2  
ICAO/IATA  
UN/ID no UN1950  
Proper Shipping Name Aerosols, non-flammable  
Hazard class 2.2

### 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 does not contain any chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372.

##### **SARA 311/312 Hazard Categories**

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

##### **Clean Water Act**

This product does not contain any substances regulated as 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, does not contain any substances regulated as hazardous substances under the Comprehensive Environmental Response Compensation and Liability Act (CERCLA) (40 CFR 302) or the Superfund Amendments and Reauthorization Act (SARA) (40 CFR 355). There may be specific reporting requirements at the local, regional, or state level pertaining to releases of this material

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**

*Causes moderate eye irritation. Harmful if swallowed.  
This product is toxic to fish, birds and other wildlife.*

#### US State Regulations

##### **California Proposition 65**

This product does not contain any Proposition 65 chemicals.

##### **U.S. State Right-to-Know Regulations**

This product does not contain any substances regulated by state right-to-know regulations

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**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 ( 0.25 )		X	X	X	X		X	X
Permethrin 52645-53-1 ( 0.20 )			X	X	X	X	X	X
Pyrethrins 8003-34-7 ( 0.05 )		X	X		X	X	X	X
Pyriproxyfen 95737-68-1 ( 0.02 )			X	X				
Petroleum gases, liquified, sweetened 68476-86-8 ( 10-20 )	X	X	X		X	X	X	X

**Mexico - Grade** Moderate risk, Grade 2

**WHMIS Hazard Class** B3 - Combustible liquid



**16. OTHER INFORMATION**

<b>NFPA</b>	<b>Health Hazards 2</b>	<b>Flammability 2</b>	<b>Instability 0</b>	<b>Special Hazards -</b>
<b>HMIS</b>	<b>Health Hazards 2</b>	<b>Flammability 2</b>	<b>Physical hazard 0</b>	<b>Personal Protection X</b>

**Product Certifications**

Revision date: 2015-04-17  
 Revision note: Initial Release

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**End of Safety Data Sheet**



