SAFETY DATA SHEET

Residual Fogger

SDS #: 6596-A

Revision date: 2016-05-26

Format: NA Version 1.04



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name Residual Fogger

Other means of identification

Product Code(s) 6596-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 and Pyrethroids,

Pyrethrum

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

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 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 / 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)

Skin corrosion/irritation	Category 2
Serious eye damage/eye irritation	Category 2B
Flammable Aerosols	Category 1

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GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Danger

Hazard Statements

H315 - Causes skin irritation

H320 - Causes eye irritation

Physical Hazards

H222 - Extremely flammable aerosol

H229 - Pressurized container: May burst if heated



Precautionary Statements - Prevention

P264 - Wash face, hands and any exposed skin thoroughly after handling

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

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P337 + P313 - If eye irritation persists: Get medical advice/ attention

P302 + P352 - IF ON SKIN: Wash with plenty of water and soap

P332 + P313 - If skin irritation occurs: Get medical advice/attention

P362 + P364 - Take off all contaminated clothing and wash it before reuse

Precautionary Statements - Storage

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

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 name	CAS-No	Weight %
Pyrethrins	8003-34-7	0.05
Piperonyl butoxide	51-03-6	0.1
n-Octyl bicycloheptene dicarboximide	113-48-4	0.2
Benzeneacetic acid, 4-chloroalpha(1-methylethyl)-, cyano (3-phenoxyphenyl)methyl ester, (S-(R*,R*))-	66230-04-4	0.1-1
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.

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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 (within the U.S. and Canada) 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 (CO₂). Dry chemical. Water spray.

Specific Hazards Arising from the

Chemical

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge

Protective equipment and precautions for firefighters Contents under pressure.

Not sensitive. Not sensitive.

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.

See Section 12 for additional Ecological Information. **Environmental Precautions**

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

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.

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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	TWA: 5 mg/m ³	TWA: 5 mg/m ³	IDLH: 5000 mg/m ³	Mexico: TWA 5 mg/m ³
(8003-34-7)			TWA: 5 mg/m ³	Mexico: STEL 10 mg/m ³
Propane	:	TWA: 1000 ppm	IDLH: 2100 ppm	-
(74-98-6)		TWA: 1800 mg/m ³	TWA: 1000 ppm	
			TWA: 1800 mg/m ³	
Isobutane	STEL 1000 ppm	-	TWA: 800 ppm	-
(75-28-5)			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: TWA: 1000 ppm	TWA: 1000 ppm
Petroleum distillates, hydrotreated light (64742-47-8)	TWA: 200 mg/m³ Skin	-	-	-
Isobutane (75-28-5)	TWA: 1000 ppm	-	TWA: 800 ppm TWA: 1000 ppm	-
			STEL: 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

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protective equipment suppliers. These recommendations apply to the product as supplied

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Mist **Appearance Physical State** Aerosol

Color No information available

Odor

Odor threshold No information available

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Melting point/freezing point Not applicable

Boiling Point/Range No information available

Flash point 66.7 °C / 152 °F Tag Closed Cup

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 8.28 lb/gal

No information available Specific gravity

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 No information available **Oxidizing properties** Molecular weight No information available No information available **Bulk density**

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.

To avoid thermal decomposition, do not overheat Keep away from open flames, hot Conditions to avoid

surfaces and sources of ignition

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

Hazardous Decomposition Products Carbon monoxide (CO). Carbon dioxide (CO₂).

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral > 5000 mg/kg **LD50 Dermal** > 5000 mg/kg LC50 Inhalation > 3.03 mg/L 4 hr

Serious eye damage/eye irritation

Moderately irritating to eyes. Skin corrosion/irritation Moderately irritating. Sensitization Non-sensitizing

Information on toxicological effects

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Symptoms

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

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 Reproductive toxicity No information available.

STOT - single exposure STOT - repeated exposure Target organ effects

Not classified. 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.

No information available. **Aspiration hazard**

Chemical name	ACGIH	IARC	NTP	OSHA
Pyrethrins		Group 2A		
8003-34-7				
Piperonyl butoxide		Group 3		
51-03-6				
Benzeneacetic acid,		Group 3		
4-chloroalpha(1-methyleth				
yl)-, cyano				
(3-phenoxyphenyl)methyl				
ester, (S-(R*,R*))-				
66230-04-4				

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

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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

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

Marine Pollutant Benzeneacetic acid, 4-chloro-.alpha.-(1-methylethyl)-, cyano (3-phenoxyphenyl)methyl

ester, (S-(R*,R*))-.

Description UN1950, Aerosols, 2.1, Marine Pollutant (Benzeneacetic acid,

4-chloro-.alpha.-(1-methylethyl)-, cyano (3-phenoxyphenyl)methyl ester, (S-(R*,R*))-)

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

Marine Pollutant Benzeneacetic acid, 4-chloro-.alpha.-(1-methylethyl)-, cyano (3-phenoxyphenyl)methyl

ester, (S-(R*,R*))-

Description UN1950, Aerosols, 2.1, Marine Pollutant (Benzeneacetic acid,

4-chloro-.alpha.-(1-methylethyl)-, cyano (3-phenoxyphenyl)methyl ester, (S-(R*,R*))-)

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:

of chemicals which are subject to the reporting requirements of the Act and Title 40 of the Gode of rederal regulations, I art of 2.							
Chemical name	CAS-No	Weight %	SARA 313 - Threshold				
			Values %				
Piperonyl butoxide - 51-03-6	51-03-6	0.1	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
Chemical name	Hazardous Substances RQs	T Extremely mazaroous Substances

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		RQs
Pyrethrins	1 lb	
8003-34-7	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

Harmful if absorbed through skin. Causes moderate eye irritation.

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
Pyrethrins	X	X	X
8003-34-7			
Piperonyl butoxide	X		
51-03-6			
Propane	X	X	X
74-98-6			
Isobutane	X	X	X
75-28-5			

International Inventories

Chemical name	TSCA	DSL	EINECS/ELINC	ENCS	China	KECL (Korea)	PICCS (Philippines)	AICS
	(United States)	(Canada)	S (Europe)	(Japan)	(IECSC)		(i illippilies)	(Australia)
Pyrethrins 8003-34-7		Х	Х		Х	Х	Х	Х
Piperonyl butoxide 51-03-6	Х	Х	Х	Х	Х	Х	Х	Х
n-Octyl bicycloheptene dicarboximide 113-48-4		Х	X	Х	Х		Х	Х
Benzeneacetic acid, 4-chloroalpha(1-meth ylethyl)-, cyano (3-phenoxyphenyl)meth yl ester, (S-(R*,R*))- 66230-04-4					Х	X		X
Propane 74-98-6	Х	Х	Х	Х	Х	Х	Х	Х
Petroleum distillates, hydrotreated light 64742-47-8	Х	Х	Х		Х	Х	Х	Х
Isobutane 75-28-5	Х	Х	Х	Х	Х	Х	Х	Х

Chemical name	Carcinogen Status	Mexico
Pyrethrins		Mexico: TWA 5 mg/m ³

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			Mexico: STEL 10 mg/m ³
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Chemical name	Mexico - Pollutant Release and Transfer Register - Reporting Emissions for Fabrication, Process or Use -Threshold Quantities	Pollutant Release and Transfer Register - Reporting Emissions - Threshold Quantities
Pyrethrins	500 2500 kg/yr	500 kg/yr

WHMIS Hazard Class

A - Compressed gases B5 - Flammable aerosol D2B - Toxic materials







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	Haalth Hazards 2	Elammahility /	linetahility ∩	Special Hazards -		

NFPA Health Hazards 2 Flammability 4 Instability 0 Special Hazards - HMIS Health Hazards 2* Flammability 4 Physical hazard 0 Personal Protection X

16. OTHER INFORMATION

NFPA/HMIS Ratings Legend * - Chronic hazard

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End of Safety Data Sheet