SAFETY DATA SHEET CB-40 Insecticide

SDS #: 6544-A Revision date: 2016-05-26 Format: NA Version 1.03



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier			
Product Name	CB-40 Insecticide		
Other means of identification			
Product Code(s)	6544-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)	Piperonyl Butoxide, n-Octyl bicycloheptene dicarboximide, Pyrethrins		
Recommended use of the chemical	and restrictions on use		
Recommended Use:	Insecticide		
Restrictions on Use:	Use as recommended by the label		
<u>Manufacturer Address</u>	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)

Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Serious eye damage/eye irritation	Category 2
Skin sensitization	Category 1
Specific target organ toxicity (single exposure)	Category 3

Flammable Aerosols	Category 2
Gases Under Pressure	Compressed Gas

GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Warning

Hazard Statements

- H313 May be harmful in contact with skin
- H317 May cause an allergic skin reaction

H319 - Causes serious eye irritation

- H332 Harmful if inhaled
- H335 May cause respiratory irritation

H336 - May cause drowsiness or dizziness

H280 - Contains gas under pressure; may explode if heated



Precautionary Statements - Prevention

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

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

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

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

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

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed 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

Harmful to aquatic life with long lasting effects. May be harmful if swallowed.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Piperonyl butoxide	51-03-6	1
n-Octyl bicycloheptene dicarboximide	113-48-4	1
Pyrethrins	8003-34-7	0.5
1,1-Difluoroethane	75-37-6	20-30
Isopropanol	67-63-0	10-20

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 (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	Central nervous system effects.		
Indication of immediate medical attention and special treatment needed, if necessary	. Treatment is symptomatic and supportive.		
	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 Sensitivity to Static Discharge	Not sensitive. 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

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.

StorageKeep 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
Isopropanol	STEL 400 ppm	TWA: 400 ppm	IDLH: 2000 ppm	Mexico: TWA 400 ppm
(67-63-0)	TWA: 200 ppm	TWA: 980 mg/m ³	TWA: 400 ppm	Mexico: TWA 980 mg/m ³
		_	TWA: 980 mg/m ³	Mexico: STEL 500 ppm
			STEL: 500 ppm	Mexico: STEL 1225
			STEL: 1225 mg/m ³	mg/m³
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Pyrethrins	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³
(8003-34-7)			· ·	
Isopropanol	TWA: 200 ppm	TWA: 400 ppm	TWA: 200 ppm	TWA: 200 ppm
(67-63-0)	STEL: 400 ppm	TWA: 985 mg/m ³		TWA: 492 mg/m ³
		STEL: 500 ppm		STEL: 400 ppm
		STEL: 1230 mg/m ³	STEL: 400 ppm	STEL: 984 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

Appearanc	е
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Liquid Aerosol **Physical State** Color Light yellow Odor **Pyrethrins Odor threshold** pН Melting point/freezing point Not applicable **Boiling Point/Range** Flash point **Evaporation Rate** Flammability (solid, gas) Flammability Limit in Air Upper flammability limit: Lower flammability limit: Vapor pressure Vapor density Density 7.98 lb/gal Specific gravity Water solubility Solubility in other solvents **Partition coefficient** Autoignition temperature **Decomposition temperature** Viscosity, kinematic Viscosity, dynamic **Explosive properties Oxidizing properties** Molecular weight **Bulk density**

No information available No information available No information available 27.8 °C / 82 °F No information available No information available

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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. Strong oxidizing agents, Bases, Powdered earth metals, Incompatible materials Hazardous Decomposition Products Carbon oxides (COx), Hydrogen fluoride, Carbonyl fluoride.

11. TOXICOLOGICAL INFORMATION

Product Information

LD50 Oral LD50 Dermal LC50 Inhalation 2,370 mg/kg (rat) > 2002 2000 mg/kg (rabbit)

Eve Contact Skin Contact Sensitization 2.5 mg/L (rat)

Slightly or non-irritating (rabbit) Slightly or non-irritating (rabbit) 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.

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n-OctvI bicvcloheptene 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. **Developmental toxicity** Isopropanol has been reported to cause teratogenicity in laboratory animals. STOT - single exposure Not classified. STOT - repeated exposure Not classified. Target organ effects 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
Piperonyl butoxide 51-03-6		Group 3		
Pyrethrins 8003-34-7		Group 2A		
Isopropanol 67-63-0		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

Packaging Type	17 oz. Container
UN/ID no	17 oz. Container: UN1950
Proper Shipping Name	17 oz. Container: Consumer Commodity
Hazard class	Consumer Commodity: ORM-D
<u>TDG</u> UN/ID no Proper Shipping Name Hazard class	17 oz. Container: UN1950 17 oz. Container: Aerosols 2.1

ICAO/IATA

UN/ID no	
Proper Shipping Name	
Hazard class	

IMDG/IMO

UN/ID no	17 oz. Container: UN1950
Proper Shipping Name	17 oz. Container: Aerosols
Hazard class	2.1

15. REGULATORY INFORMATION

17 oz. Container: ID8000

17 oz. Container: 9

17 oz. Container: Consumer Commodity

U.S. Federal Regulations

<u>SARA 313</u>

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	1.0
Isopropanol - 67-63-0	67-63-0	10-20	1.0

SARA 311/312 Hazard Categories

Acute health hazard	Yes
Chronic health hazard	Yes
Fire hazard	Yes
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
Ammonium hydroxide 1336-21-6	1000 lb			Х
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
Ammonium hydroxide 1336-21-6	1000 lb 454 kg	
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

Harmful if swallowed, inhaled, or absorbed through skin. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

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	Х		
Pyrethrins 8003-34-7	Х	X	Х
1,1-Difluoroethane 75-37-6	Х	Х	
Isopropanol 67-63-0	Х	X	Х

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Piperonyl butoxide 51-03-6	Х	Х	Х	Х	Х	Х	Х	Х
n-Octyl bicycloheptene dicarboximide 113-48-4		X	Х	х	X		Х	Х
Pyrethrins 8003-34-7		Х	Х		Х	Х	Х	Х
1,1-Difluoroethane 75-37-6	Х	Х	Х	Х	Х	Х	Х	Х
Isopropanol 67-63-0	Х	Х	Х	Х	Х	Х	Х	Х

Mexico - Grade

Serious risk, Grade 3

Chemical name	Carcinogen Status	Mexico
Pyrethrins	Mexico: TWA 5 mg/m ³	
		Mexico: STEL 10 mg/m ³
Isopropanol		Mexico: TWA 400 ppm
		Mexico: TWA 980 mg/m ³
		Mexico: STEL 500 ppm
		Mexico: STEL 1225 mg/m ³

Chemical name	Mexico - Pollutant Release and Transfer Register - Reporting missions for Fabrication, Process or Use -Threshold QuantitiesPollutant Release and Transfe Register - Reporting Emissions Threshold Quantities	
Pyrethrins	500 2500 kg/yr	500 kg/yr

WHMIS Hazard Class

A - Compressed gases

B5 - Flammable aerosol

D1B - Toxic materials

D2B - Toxic materials

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16. OTHER INFORMATION					
NFPA Health Hazards 2 Flammability 3 Instability 0 Special Hazards -					
HMIS Health Hazards 2 Flammability 3 Physical hazard 0 Personal Protection X					

Revision date: Reason for revision: 2016-05-26 Format Change

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