SAFETY DATA SHEET

CB-80 Insecticide

SDS #: 6545-A

Revision date: 2017-05-23

Format: NA Version 2



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name CB-80 Insecticide

Other means of identification

Product Code(s) 6545-A

Synonyms Pyrethrins and Pyrethroids, Pyrethrum,

, PIPERONYL BUTOXIDE: Butylcarbityl(6-propylpiperonyl) ether, 1,3-Benzodioxole,

5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-

Active Ingredient(s) Piperonyl Butoxide, Pyrethrins

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: 1800 / 424 9300 (CHEMTREC - U.S.A.) 1703 / 741-5970 (CHEMTREC - International) 1703 / 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
Serious eye damage/eye irritation	Category 2
Specific target organ toxicity (single exposure)	Category 3
Flammable Aerosols	Category 2

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GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Warning

Hazard Statements

- H332 Harmful if inhaled
- H319 Causes serious eye irritation
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness
- H223 Flammable aerosol
- H229 Pressurized container: May burst if heated



Precautionary Statements - Prevention

- P261 Avoid breathing dust/fume/gas/mist/vapors/spray
- P264 Wash face, hands and any exposed skin thoroughly after handling
- P272 Contaminated work clothing should not be allowed out of the workplace
- 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
- P280 Wear eye protection/ face protection

Precautionary Statements - Response

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 eve 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
- P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER or doctor
- P331 Do NOT induce vomiting

Precautionary Statements - Storage

- P405 Store locked up
- P403 + P233 Store in a well-ventilated place. Keep container tightly closed
- P410 + P412 Protect from sunlight. Do not expose to temperatures exceeding 50 °C/ 122 °F

Precautionary Statements - Disposal

P501 - Dispose of contents/container according to label directions

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

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

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical name	CAS-No	Weight %
Piperonyl butoxide	51-03-6	4

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Pyrethrins	8003-34-7	0.5
1,1-Difluoroethane	75-37-6	50-70
Isopropanol	67-63-0	15-30
Petroleum distillates, hydrotreated light	64742-47-8	1-5

Synonyms are provided in Section 1.

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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 ContactTake 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.

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

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 Contents under pressure.

No information available. No information available.

Protective equipment and precautions for firefighters

Isolate fire area. Evaluate upwind. As in any fire, wear self-contained breathing apparatus

and full protective gear.

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.

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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	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
Petroleum distillates,	TWA: 200 mg/m ³	-	-	-
hydrotreated light	Skin			
(64742-47-8)				

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.

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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

Yellow, Aerosolized liquid **Appearance**

Physical State Liquid Aerosol Color Yellow **Pvrethrins** Odor

Odor threshold No information available No information available

Melting point/freezing point Not applicable

Boiling Point/Range No information available

14.4 °C / 58 °F (Flame extension 5" - no flashback) Flash point

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** 7.29 lb/gal (0.874 g/cm³)

Specific gravity 0.8746

Water solubility No information available Solubility in other solvents No information available No information available Partition coefficient **Autoignition temperature** No information available No information available **Decomposition temperature** No information available Viscosity, kinematic No information available Viscosity, dynamic **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.

Keep away from open flames, hot surfaces and sources of ignition. Conditions to avoid

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 2,370 mg/kg (rat) > 2000 mg/kg (rabbit) LD50 Dermal 2.5 mg/L 4 hr (rat) LC50 Inhalation

Eye Contact Slightly or non-irritating (rabbit) **Skin Contact** Slightly or non-irritating (rabbit)

Sensitization May cause sensitization by skin contact

Chemical name LD50 Oral **LD50 Dermal** LC50 Inhalation

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	Piperonyl butoxide	= 4570 mg/kg (Rat) = 6150	> 7950 mg/kg (Rat)	
(51-03-6) mg/kg (Rat)				
	Pyrethrins	= 200 mg/kg (Rat)	= 1350 mg/kg (Rat) = 300	= 3.4 mg/L (Rat) 4 h
	(8003-34-7)		mg/kg(Rabbit)	
	Isopropanol	= 1870 mg/kg (Rat)	= 4059 mg/kg (Rabbit)	= 72600 mg/m ³ (Rat) 4 h
	(67-63-0)			

Information on toxicological effects

Symptoms

Carcinogenicity

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).

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.

Aspiration hazard The product does not present an aspiration pneumonia hazard.

Chemical name	ACGIH	IARC	NTP	OSHA
Piperonyl butoxide		Group 3		
51-03-6				
Pyrethrins		Group 2A		
8003-34-7				
Isopropanol		Group 3		
67-63-0				

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
Isopropanol	96 h EC50: > 1000 mg/L	96 h LC50: = 9640 mg/L	48 h EC50: = 13299 mg/L (Daphnia
67-63-0	(Desmodesmus subspicatus) 72 h	(Pimephales promelas) flow-through	magna)
	EC50: > 1000 mg/L (Desmodesmus	96 h LC50: > 1400000 μg/L	
	subspicatus)	(Lepomis macrochirus) 96 h LC50:	
		= 11130 mg/L (Pimephales	
		promelas) static	
Pyrethrins		96 h LC50: = 0.054 mg/L	
8003-34-7		(Oncorhynchus mykiss) 96 h LC50:	

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Version 2 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.

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.

Containers must be disposed of in accordance with local, state and federal regulations. **Contaminated Packaging**

Refer to the product label for container disposal instructions.

14. TRANSPORT INFORMATION

DOT

Mobility

17 oz. Container **Packaging Type**

17 oz. Container: UN1950 UN/ID no 13 lb. Cylinder: UN1954

Proper Shipping Name 17 oz. Container: Consumer Commodity

13 lb. Cylinder: Compressed gas, flammable, n.o.s. (1,1-Difluoroethane, Isopropyl alcohol)

17 oz. Container: ORM-D Hazard class

13 lb. Cylinder: 2.1

TDG

UN/ID no 17 oz. Container: UN1950 13 lb. Cylinder: UN1954

Proper Shipping Name 17 oz. Container: Aerosols

13 lb. Cylinder: Compressed gas, flammable, n.o.s. (1,1-Difluoroethane, Isopropyl alcohol)

Hazard class 2.1

ICAO/IATA

UN/ID no 17 oz. Container ID8000 13 lb. Cylinder: UN 1954

Proper Shipping Name 17 oz. Container: Consumer Commodity

13 lb. Cylinder: Compressed gas, flammable, n.o.s. (1,1-Difluoroethane, Isopropyl alcohol)

17 oz. Container: 9 **Hazard class** 13 lb. Cylinder: 2.1

IMDG/IMO

17 oz. Container: UN1950 UN/ID no

13 lb. Cylinder: UN1954

17 oz. Container: Aerosols **Proper Shipping Name**

13 lb. Cylinder: Compressed gas, flammable, n.o.s. (1,1-Difluoroethane, Isopropyl alcohol)

Hazard class 2.1

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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	4	1.0
Isopropanol - 67-63-0	67-63-0	15-30	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
Pyrethrins	1 lb			
8003-34-7				

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
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

Contains petroleum distillates. Causes moderate eye irritation. Harmful if swallowed, inhaled or absorbed through skin. Prolonged or repeated contact with the skin 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	X			
51-03-6				
Pyrethrins	X	X	X	

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

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	Χ	Х	Х	Χ	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
Petroleum distillates, hydrotreated light 64742-47-8	Х	Х	Х		Х	Х	Х	Х

Mexico - Grade

Moderate risk, Grade 2

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 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	

CANADA

WHMIS Statement

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

WHMIS Hazard Class

A - Compressed gases B5 - Flammable aerosol D1B - Toxic materials D2B - Toxic materials









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

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Reason for revision: (M)SDS sections updated

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