Material Safety Data Sheet CB-123 Insecticide

SDS #: 6593-A

Revision Date: 2011-06-24

Version 2



This MSDS has been prepared to meet U.S. OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Workplace Hazardous Materials Information System (WHMIS) requirements.

1. PRODUCT AND COMPANY IDENTIFICATION

Product name CB-123 Insecticide

Formula code 6593

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

Synonyms Pyrethrins and Pyrethroids, Pyrethrum Butylcarbityl(6-propylpiperonyl) ether, 1,3-Benzodioxole,

5-[[2-(2-butoxyethoxy)ethoxy]methyl]-6-propyl-; N-(2-ethylhexyl)-5-norbornene-2,3-dicarboximide;

N-(2-ethylhexyl)-8,9,10-trinorborn-5-ene-2,3-dicarboximide

Recommended use Insecticide

Manufacturer Emergency telephone number

FMC Corporation

Agricultural Products Group For leak, fire, spill or accident emergencies, call:

1735 Market Street (800) 424-9300 (CHEMTREC - U.S.A.) Philadelphia, PA 19103 (703) 527-3887 (CHEMTREC - Collect - All Other Countries),

General Information: Medical Emergencies:

Phone: (215) 299-6000 (800) 331-3148 (U.S.A. & Canada)

E-Mail: msdsinfo@fmc.com (651) 632-6793 (All Other Countries - Collect)

2. Hazards identification

Appearance Aerosolized liquid, light yellow

Physical State Liquid aerosol

Odor No information available

Physical or Chemical Hazards

Flammable properties Flammable liquid. Contents under pressure.

Potential health effects

Acute effects

Eyes May cause slight irritation.

Skin Substance may cause slight skin irritation.

Inhalation Harmful by inhalation. Intentional misuse by deliberately concentrating and inhaling contents may

be harmful or fatal. May cause central nervous system depression with nausea, headache, dizziness,

vomiting, and incoordination. May cause cardiac effects.

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea. May cause additional affects as listed under "Inhalation".

Chronic effects

Aggravated Medical Conditions Liver disorders, Kidney disorders, Cardiovascular.

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3. Composition/information on ingredients

Hazardous ingredients

Chemical Name	CAS-No	Weight %
1,1-Difluoroethane	75-37-6	60-70
Isopropanol	67-63-0	10-20
Petroleum distillates, hydrotreated light	64742-47-8	10-20
n-Octyl bicycloheptene dicarboximide	113-48-4	3
Piperonyl butoxide	51-03-6	2
Pyrethrin	8003-34-7	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 treatment advice.

Inhalation Move person to fresh air If person is not breathing, call 911 or an ambulance, then give artificial

respiration, preferably by 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.

Notes to physician This product is a pyrethroid. If large amounts have been ingested, the stomach and intestines should

be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase

absorption and so should be avoided.

5. Fire-fighting measures

Flammable properties Flammable liquid. Contents under pressure.

Flash Point Flame extension >15" - no flashback

Special hazards arising from the substance or mixture

Sensitivity to Mechanical Impact not applicable Sensitivity to Static Discharge not applicable

Extinguishing media

Suitable extinguishing media Foam. Carbon dioxide (CO₂). Dry chemical. Water spray.

Advice for fire-fighters

Protective equipment and precautions Isolate fire area. Evaluate downwind. In the event of fire, wear self contained breathing apparatus.

for firefighters

NFPA

Health Hazard 2 Flammability 3

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Stability 0 Special Hazards

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.

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 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.

Other For further clean-up instructions call FMC Emergency Hotline number listed in Section 1 "Product

and Company Identification" above.

7. Handling and storage

Handling Do not contaminate other pesticides, fertilizers, water, food or feed by storage or disposal.

Keep in a dry, cool and well-ventilated place. Keep away from open flames, hot surfaces and sources Storage

of ignition. Keep out of reach of children and animals. Store in original container only.

8. Exposure controls/personal protection

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH IDLH	Mexico
Isopropanol	STEL 400 ppm	TWA: 400 ppm TWA: 980	IDLH: 2000 ppm	Mexico: TWA 400 ppm
67-63-0	TWA: 200 ppm	mg/m³	TWA: 400 ppm TWA: 980	Mexico: TWA 980 mg/m ³
			mg/m³	Mexico: STEL 500 ppm
			STEL: 500 ppm STEL: 1225	Mexico: STEL 1225 mg/m ³
			mg/m³	
Pyrethrin	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

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Isopropanol	TWA: 200 ppm	TWA: 400 ppm TWA: 985	TWA: 200 ppm	TWA: 200 ppm TWA: 492
67-63-0	STEL: 400 ppm	mg/m³	STEL: 400 ppm	mg/m³
		STEL: 500 ppm STEL: 1230		STEL: 400 ppm STEL: 984
		mg/m³		mg/m³
Petroleum distillates,	TWA: 200 mg/m ³			
hydrotreated light	Skin			
64742-47-8				
Pyrethrin	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³	TWA: 5 mg/m ³
8003-34-7	_	_	_	_

Occupational exposure controls

Apply technical measures to comply with the occupational exposure limits. When working in **Engineering measures**

confined spaces (tanks, containers, etc.), ensure that there is a supply of air suitable for breathing and

wear the recommended equipment.

Personal protective equipment

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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.

Respiratory protection For dust, splash, mist or spray exposures wear a filtering mask.

Eye/face protection For dust, splash, mist or spray exposure, wear chemical protective goggles or a face-shield

Skin and body protection Wear long-sleeved shirt, long pants, socks, shoes, and gloves.

Hand protection Protective gloves

Hygiene measuresClean 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.

9. Physical and chemical properties

Appearance Aerosolized liquid, light yellow

Color light yellow Physical State Liquid aerosol

OdorNo information availablepHNo information availableMelting Point/RangeNo information availableFreezing pointNo information available

Boiling Point/Range not applicable

Flash Point Flame extension >15" - no flashback

Evaporation rate not applicable Autoignition Temperature not applicable

Flammable properties Flammable liquid. Contents under pressure.

Vapor pressure not applicable

Vapor densityNo information availableDensityNo information availableSpecific GravityNo information available

Bulk density 7.44 lbs/gal

Water solubility No information available Percent volatile No information available

Partition coefficient: not applicable

Viscosity No information available

Oxidizing properties not applicable

10. Stability and reactivity

Stability Stable

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

Materials to avoid Strong oxidizing agents, Bases, Powdered earth metals

Hazardous decomposition products Carbon oxides, Hydrogen fluoride, Carbonyl fluoride

Hazardous polymerization Hazardous polymerization does not occur

11. Toxicological information

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Eye contact Mild Irritant **Skin contact** Mild Irritant

Ingestion May be harmful if swallowed. Ingestion may cause gastrointestinal irritation, nausea, vomiting and

diarrhea. May cause additional affects as listed under "Inhalation".

Inhalation Harmful by inhalation. Intentional misuse by deliberately concentrating and inhaling contents may

be harmful or fatal. May cause central nervous system depression with nausea, headache, dizziness, vomiting, and incoordination. Inhalation of high concentrations of 1,1-difluoroethane is harmful and

may cause heart irregularities, unconcsciousness or death.

 LD50 Dermal
 > 2000 mg/kg (rabbit)

 LD50 Oral
 2,370 mg/kg (rat)

 LC50 Inhalation:
 2.5 mg/L (rat)

Chronic Toxicity - Active Ingredient(s)

Carcinogenicity Not recognized as carcinogenic by Research Agencies (IARC, NTP, OSHA, ACGIH).

Mutagenicity Piperonyl butoxide ether may affect mammalian liver microsomal detoxification enzymes n-Octyl

bicycloheptene dicarboximide was negative in a chromosome aberration assay

Developmental Toxicity Isopropanol has been reported to cause teratogenicity in laboratory animals.

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.

Chemical Name	ACGIH	IARC	NTP	OSHA	NIOSH - Target Organs
Isopropanol					eyes,respiratory system,skin
Pyrethrin					CNS,skin,respiratory system

12. Ecological information

Ecotoxicity

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other aquatic invertebrates
Isopropanol	>1000 mg/L EC50 96 h (Desmodesmus subspicatus) >1000 mg/L EC50 72 h (Desmodesmus subspicatus)	LC50 9640 mg/L Pimephales promelas 96 h LC50 11130 mg/L Pimephales promelas 96 h LC50> >1400000 µg/L Lepomis macrochirus 96 h		EC50 13299 mg/L 48 h
Petroleum distillates, hydrotreated light		LC50 45 mg/L Pimephales promelas 96 h LC50 2.2 mg/L Lepomis macrochirus 96 h LC50 2.4 mg/L Oncorhynchus mykiss 96 h		LC50 4720 mg/L 96 h

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Pyrethrin	LC50 0.054 mg/L
	Oncorhynchus mykiss 96 h
	LC50 0.0031-0.0038 mg/L
	Oncorhynchus mykiss 96 h
	LC50 0.02-0.03 mg/L
	Oncorhynchus mykiss 96 h
	LC50 0.0322-0.0472 mg/L
	Lepomis macrochirus 96 h
	LC50 0.003-0.0046 mg/L
	Lepomis macrochirus 96 h
	LC50 0.074 mg/L Lepomis
	macrochirus 96 h LC50
	0.0425-0.121 mg/L Pimephales
	promelas 96 h LC50
	0.224-0.458 mg/L Pimephales
	promelas 96 h

Environmental Fate

Chemical Name	log Pow
Isopropanol	0.05

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 packagingContainers 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 Type17 oz. ContainerProper shipping nameConsumer Commodity

Hazard class ORM-D

Packaging Type 13 lb. Container

Proper shipping name Compressed gas, flammable, n.o.s. (1,1-Difluoroethane, Isopropyl alcohol)

Hazard Class2.1UN/ID NoUN1950

TDG

Proper shipping name 17 oz. Container: Aerosols

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

Hazard Class 2.1

UN/ID No 17 oz. Container: UN1950

13 lb. Cylinder: UN1954

ICAO/IATA

Hazard Class

UN/ID No 17 oz. Container: ID8000

13 lb. Cylinder: UN 1954

Proper shipping name 17 oz. Container: Consumer Commodity

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

17 oz. Container: 9

13 lb. Cylinder: 2.1

Marine pollutant Pyrethrins

IMDG/IMO

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Proper shipping name 17 oz. Container: Aerosols

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

Hazard Class 2.1

UN/ID No 17 oz. Container: UN1950

13 lb. Cylinder: UN1954

Marine pollutant Pyrethrins

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 %
Isopropanol	67-63-0	10-20	1.0
Piperonyl butoxide	51-03-6	2	1.0

SARA 311/312 Hazard Categories

Acute Health HazardyesChronic Health HazardyesFire HazardyesSudden Release of Pressure HazardNoReactive HazardNo

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	
Pyrethrin	1 lb		

Chemical Name	,	U.S TSCA (Toxic Substances Control Act) - Section 5(a)(2) - Chemicals with Significant
	799)	New Use Rules (SNURs)
Isopropanol	40 CFR 799.2325	

Chemical Name	U.S TSCA (Toxic Substances Control Act) - Section 8(a) - Chemical-Specific Reporting and Recordkeeping
Petroleum distillates, hydrotreated light	Partially exempt chemical substance termed Petroleum Process Stream

Chemical Name	U.S TSCA (Toxic Substances Control Act) - Section 8(d) - 716.120(a) - Health and Safety Reporting - List of Substances
1,1-Difluoroethane	04/13/1989
Isopropanol	12/15/1986

International Regulations

Mexico - Grade Serious risk, Grade 3

Chemical Name	Carcinogen Status	Mexico
Isopropanol	Mexico: TWA 400 ppm Mexico: TWA 980 mg/m ³	
		Mexico: STEL 500 ppm Mexico: STEL 1225 mg/m ³
Pyrethrin		Mexico: TWA 5 mg/m ³
		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
1,1-Difluoroethane	1000 100 kg/yr	1000 kg/yr

Canada

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the MSDS contains all the information required by the CPR.

WHMIS Hazard Class

B5 Flammable aerosolD1B Toxic materialsD2B Toxic materials



16. Other information

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Reason for revision: (M)SDS sections updated.

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End of Material Safety Data Sheet