Material Safety Data Sheet

Cynoff® WP Insecticide

MSDS #: 1070-A

Revision Date: 2013-08-02

Version 0.03



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

1. PRODUCT AND COMPANY IDENTIFICATION

Product name Cynoff® WP Insecticide

Formula code 1070-A

Active Ingredient(s) Cypermethrin

Synonyms FMC 30980; (RS)-α-cyano-3-phenoxybenzyl

(1RS, 3RS; 1RS, 3SR) - 3 - (2, 2 - dichlorovinyl) - 2, 2 - dimethylcyclopropanecarboxylate;

cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate

Chemical Family Pyrethroid Pesticide

Recommended use: Insecticide

Manufacturer Emergency telephone number

FMC Corporation (800) 331-3148 (FMC - U.S.A. & Canada)
Agricultural Products Group (716) 735-3765 (FMC - Reverse charges)
1735 Market Street For leak, fire, spill or accident emergencies, call:
Philadelphia, PA 19103 1 800 / 424 9300 (CHEMTREC - U.S.A.)

General Information: 1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com

2. HAZARDS IDENTIFICATION

Appearance Light-tan powder

Physical state solid

Odor Low

Physical or Chemical Hazards

Potential health effects

Acute effects

Eyes May cause slight irritation.

Skin May cause sensitization by skin contact. Substance may cause slight skin irritation.

Inhalation May cause irritation of respiratory tract. May cause additional effects as listed under "Ingestion".

Cynoff® WP Insecticide

MSDS #: 1070-A **Revision Date: 2013-08-02**

Version 0.03

Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central Ingestion

nervous system depression.

Chronic effects Effects are expected to be similar to those that are seen with acute toxicity.

Environmental hazard Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Hazardous ingredients

Chemical Name	CAS-No	Weight %
Cypermethrin	52315-07-8	40
Proprietary Material	Proprietary	20-30
Silica gel	63231-67-4	20-30
Sodium Lauryl Sulfate	151-21-3	<5

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.

Move person to fresh air. If person is not breathing, call 911 (within the U.S. and Canada) or an Inhalation

ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison

control center or doctor for further treatment advice.

Ingestion Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of

water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or

doctor. Do not 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

Sensitivity to Mechanical Impact

Sensitivity to Static Discharge

Not applicable Not applicable

Suitable extinguishing media Carbon dioxide (CO₂), Dry chemical, Alcohol-resistant foam, Water spray.

Protective equipment and precautions

for firefighters

Wear self-contained breathing apparatus and protective suit.

NFPA

Health Hazard 2 **Flammability** 1 Stability 0 **Special Hazards**

Version 0.03

6. ACCIDENTAL RELEASE MEASURES

Personal precautions Isolate and post spill area. Remove all sources of ignition. Wear suitable protective clothing, gloves

and eye/face protection. For personal protection see section 8.

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 Use a wet sweeping compound or water to prevent dust formation.

Methods for cleaning up Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area, tools and

equipment by washing with bleach water and soap. Absorb rinsate and add to the collected waste. Waste must be classified and labeled prior to recycling or disposal. Dispose of waste as indicated in

Section 13.

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.

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. Store in original container only.

8. EXPOSURE CONTROL / PERSONAL PROTECTION

Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Proprietary Material	TWA: 10 mg/m ³	TWA: 15 mg/m ³ TWA: 5	TWA: 10 mg/m ³ TWA: 5	
		mg/m³	mg/m³	
Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Proprietary Material	TWA: 10 mg/m ³ TWA: 3 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³	TWA: 10 mg/m ³
Silica gel 63231-67-4		TWA: 6 mg/m ³		

Occupational exposure 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.

Personal Protective Equipment

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

Version 0.03

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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance Light-tan powder
Color Light tan
Physical state solid
Odor Low

pH 8.7 @ 20 °C (5 % solution) (as aqueous solution)

Melting Point/RangeNo information available.Freezing pointNo information available.Boiling Point/RangeNo information available.

Flash Point Not applicable
Evaporation rate No information available.

Vapor pressure No information available. No information available. Vapor density Density 0.28 - 0.38 g/mL **Bulk density** 18-24 lb/cu ft Water solubility Dispersible in water Percent volatile No information available. **Partition coefficient:** No information available. Viscosity No information available.

Autoignition Temperature No information available.

10. STABILITY AND REACTIVITY

Stability Stable.

Conditions to avoid Heat, flames and sparks

Hazardous decomposition products Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides,

Hydrogen cyanide, Chlorine, Hydrogen chloride,

Hazardous polymerization Hazardous polymerization does not occur.

11. TOXICOLOGICAL INFORMATION

Acute effects

Acute Toxicity

Large doses of cypermethrin ingested by laboratory animals produced signs of toxicity including loss of motor control, tremors, decreased activity, urinary incontinence, incoordination, increased sensitivity to sound and convulsions.

Eye contact Slightly or non-irritating (rabbit). **Skin contact** Slightly or non-irritating (rabbit).

LD50 Dermal > 2000 mg/kg (rabbit) **LD50 Oral** > 2342 mg/kg (Rat)

LC50 Inhalation: Cypermethrin: 2.5 mg/L 4 hr (Rat)

Sensitization Sensitizer

Chronic effects

Cynoff® WP Insecticide

MSDS #: 1070-A Revision Date: 2013-08-02

Version 0.03

Chronic Toxicity Effects are expected to be similar to those that are seen with acute toxicity.

Carcinogenicity Cypermethrin caused an increase in benign lung tumors in mice, but not in rats, and was negative for

genotoxicity. EPA has classified zeta-cypermethrin as a possible human carcinogen based on this information, but does not regulate based on its low cancer risk. Not recognized as carcinogenic by

Research Agencies (IARC, NTP, OSHA, ACGIH).

Mutagenicity Cypermethrin: Not genotoxic.

Reproductive toxicity Cypermethrin: No toxicity to reproduction.

Neurological Effects Cypermethrin did not cause neurotoxicity in animal experiments.

Developmental Toxicity Cypermethrin: Not teratogenic in animal studies.

Target Organ Effects Cypermethrin: Liver enlargement and elevated cholesterol levels are often noted in laboratory

animals that have ingested large doses of during their life span.

Chemical Name	ACGIH	IARC	NTP	OSHA	NIOSH - Target Organs
Proprietary Material					eyes,respiratory system,skin

12. ECOLOGICAL INFORMATION

Marine pollutant Ecotoxicity

Cypermethrin

Ecotoxicity effects

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Cypermethrin (52315-07-8)				
Active Ingredient(s)	Duration	Species	Value	Units:
Cypermethrin	LC50	Aquatic organisms	0.005 - 0.13	μg/L
	LC50	Fish	0.09 - 3.42	μg/L
	LD50 Oral	Bobwhite quail	> 2000	mg/kg
	LD50	Bee	0.023-0.56	μg/bee

Chemical Name	Toxicity to algae	Toxicity to fish	Toxicity to microorganisms	Toxicity to daphnia and other
				aquatic invertebrates

Version 0.03

Sodium Lauryl Sulfate	53 mg/L EC50 72 h	LC50 8 - 12.5 mg/L Pimephales	EC50 = 1.8 mg/L 48 h
	(Desmodesmus subspicatus) 30	promelas 96 h LC50 15 - 18.9	
	- 100 mg/L EC50 96 h	mg/L Pimephales promelas 96	
	(Desmodesmus subspicatus)	h LC50 22.1 - 22.8 mg/L	
	117 mg/L EC50 96 h	Pimephales promelas 96 h	
	(Pseudokirchneriella	LC50 4.3 - 8.5 mg/L	
	subcapitata) 3.59 - 15.6 mg/L	Oncorhynchus mykiss 96 h	
	EC50 96 h (Pseudokirchneriella	LC50= 4.62 mg/L	
	subcapitata)	Oncorhynchus mykiss 96 h	
		LC50= 4.2 mg/L Oncorhynchus	
		mykiss 96 h LC50= 7.97 mg/L	
		Brachydanio rerio 96 h LC50	
		9.9 - 20.1 mg/L Brachydanio	
		rerio 96 h LC50 4.06 - 5.75	
		mg/L Lepomis macrochirus 96	
		h LC50 4.2 - 4.8 mg/L Lepomis	
		macrochirus 96 h LC50= 4.5	
		mg/L Lepomis macrochirus 96	
		h LC50 5.8 - 7.5 mg/L	
		Pimephales promelas 96 h	
		LC50 10.2 - 22.5 mg/L	
		Pimephales promelas 96 h	
		LC50 6.2 - 9.6 mg/L	
		Pimephales promelas 96 h	
		LC50 13.5 - 18.3 mg/L Poecilia	
		reticulata 96 h LC50 10.8 - 16.6	
		mg/L Poecilia reticulata 96 h	
		LC50= 1.31 mg/L Cyprinus	
		carpio 96 h	

Environmental Fate

Cypermethrin (52315-07-8)		
Active Ingredient(s)	Type of Test	Result
Cypermethrin	Bioconcentration factor (BCF)	443
	Half-life in soil	2 - 4 weeks
	log Pow	5
	Mobility in soil	Not expected to reach groundwater
	Stability in water	Hydrolysis unstable at pH 9, half life 20-29 days at pH 5 and 7.

Chemical Name	log Pow
Sodium Lauryl Sulfate	1.6

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 Not regulated for transportation if shipped in Non Bulk packaging. The classification below pertains

to the shipment in Bulk packaging.

Packaging TypeBulk,UN/ID NoUN3077Hazard Class9Packing groupIII

Cynoff® WP Insecticide

MSDS #: 1070-A Revision Date: 2013-08-02

Version 0.03

Marine pollutant Cypermethrin

Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Cypermethrin), 9, PG III, Marine

Pollutant

Additional information When shipped in BULK this product is classified as a Marine Pollutant.

TDG Classification below is only applicable when shipped by vessel and is not applicable when shipped

by road or rail only.

UN/ID No UN3077
Hazard Class 9
Packing group III

Marine pollutant Cypermethrin.

Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Cypermethrin), 9, PG III, Marine

Pollutant

ICAO/IATA

UN/ID No UN3077
Hazard Class 9
Packing group III

Marine pollutant Cypermethrin

Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Cypermethrin), 9, PG III, Marine

Pollutant

IMDG/IMO

UN/ID No
UN3077
Hazard Class
9
Packing group
III
EmS No.
F-A, S-F
Marine pollutant
Cypermethrin

Description UN3077, Environmentally hazardous substance, solid, n.o.s. (Cypermethrin), 9, PG III, Marine

Pollutant

Version 0.03

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 HazardyesChronic Health HazardyesFire HazardnoSudden Release of Pressure HazardnoReactive Hazardno

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.

International Regulations

Mexico - Grade Slight risk, Grade 1

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 D2B Toxic materials



16. OTHER INFORMATION

Revision Date: 2013-08-02

Reason for revision: (M)SDS sections updated.

Disclaimer

FMC Corporation believes that the information and recommendations contained herein (including data and statements) are accurate as of the date hereof. NO WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WARRANTY OF MERCHANTABILITY OR ANY OTHER WARRANTY, EXPRESSED OR IMPLIED, IS MADE CONCERNING THE INFORMATION PROVIDED HEREIN. The information provided herein relates only to the specified product designated and may not be applicable where such product is used in combination with any other materials or in any process. Use of this product is regulated by the U.S. Environmental Protection Agency (EPA). It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Further, since the conditions and methods of use are beyond the control of FMC Corporation, FMC corporation expressly disclaims any and all liability as to any results obtained or arising from any use of the products or reliance on such information.

Prepared By

FMC Corporation
FMC Logo - Trademark of FMC Corporation

© 2013 FMC Corporation. All Rights Reserved.

End of Material Safety Data Sheet