# Material Safety Data Sheet Cynoff® WP Insecticide

**SDS # :** 1070-A **Revision Date:** 2012-04-25 **Version** 0.02



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	Cynoff® WP Insecticide
Formula code	1070-A
Active Ingredient(s)	Cypermethrin
Synonyms	FMC 30980; (RS)-k-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 FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000	Emergency telephone number (800) 331-3148 (FMC - U.S.A. & Canada) (716) 735-3765 (FMC - Reverse charges) For leak, fire, spill or accident emergencies, call:
E-Mail: msdsinfo@fmc.com	+1 800 / 424 9300 (CHEMTREC - U.S.A.) +1 703 / 527 3887 (CHEMTREC - Collect - All Other Countries)

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".
Ingestion	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central 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		
Sodium Lauryl Sulfate	151-21-3	<5
4. First aid measures		
Eye contact	Hold eyes open and rinse slowly and gently with water for if present, after the first 5 minutes, then continue rinsing 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	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 increa 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 (CO <sub>2</sub> ), Dry chemical, Alcohol-resistant foam, Water spray.	
Protective equipment and precautions for firefighters	Wear self-contained breathing apparatus and protective s	uit.
NFPA Health Hazard 2 Flammability 1 Stability 0		

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.

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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 controls/personal protection

#### Exposure guidelines

Chemical Name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Proprietary Material	TWA: 10 mg/m <sup>3</sup>	TWA: 15 mg/m <sup>3</sup> TWA: 5	TWA: 10 mg/m3 TWA: 5	Mexico: TWA 10 mg/m <sup>3</sup>
	-	mg/m <sup>3</sup>	mg/m <sup>3</sup>	_

Chemical Name	British Columbia	Quebec	Ontario TWAEV	Alberta
Proprietary Material	TWA: 10 mg/m <sup>3</sup> TWA: 3 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup>
Silica gel 63231-67-4		TWA: 6 mg/m <sup>3</sup>		

#### **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
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

Appearance	
Color	

Light-tan powder Light tan

### Cynoff® WP Insecticide

Physical state	solid
Odor	Low
рН	8.7 @ 20 °C (5 % solution) (as aqueous solution)
Melting Point/Range	No information available.
Freezing point	No information available
Boiling Point/Range	No information available.
Flash Point	not applicable
Evaporation rate	No information available
Autoignition Temperature	No information available.
Vapor pressure	No information available
Vapor density	No information available
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
Oxidizing properties	not applicable
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# 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 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. Eve contact Slightly or non-irritating (rabbit).

Skin contact	Slightly or non-irritating (rabbit).	
LD50 Dermal LD50 Oral LC50 Inhalation:	<ul> <li>&gt; 2000 mg/kg (rabbit)</li> <li>2342 mg/kg (rat)</li> <li>Cypermethrin 2.5 mg/L 4 hr (rat)</li> </ul>	
Sensitization	Sensitizer	
Chronic Toxicity - Other Ingredient(s)		
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 is 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
Sodium Lauryl Sulfate	(Desmodesmus subspicatus) 117 mg/L EC50 96 h (Pseudokirchneriella subcapitata) 3.59 - 15.6 mg/L EC50 96 h (Pseudokirchneriella subcapitata)	LC50 8-12.5 mg/L Pimephales promelas 96 h LC50 15-18.9 mg/L Pimephales promelas 96 h LC50 22.1-22.8 mg/L Pimephales promelas 96 h LC50 4.3-8.5 mg/L Oncorhynchus mykiss 96 h LC50 4.62 mg/L 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 1.2-22.5 mg/L Pimephales promelas 96 h LC50 10.2-22.5 mg/L Pimephales promelas 96 h LC50 10.2-21.5 mg/L Pimephales promelas 96 h LC50 10.2-21.5 mg/L Pimephales promelas 96 h LC50 10.2-21.5 mg/L Pimephales promelas 96 h LC50 10.2-18.3 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		EC50 1.8 mg/L 48 h

**Environmental Fate** 

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       Bioconcentrations         Chemical Name       log Pow         Sodium Lauryl Sulfate       1.6         Chemical Name         Sodium Lauryl Sulfate         Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes ca be disposed of by use according to label instructions, contact appropriate disposal authorities fo guidance.         Contaminated packaging         Containers must be disposed of in accordance with local, state and federal regulations. Refer to product label for container disposal instructions.         It ransport information         DOT         Not regulated for transportation if shipped in Non Bulk packaging. The classification below pe to the shipment in Bulk packaging.         Packaging Type         Packing group       Bulk.         Proper shipping name         Hazard Class       9         UN/ID No       UN3077         Packing group       III         Marine pollutant       Cypermethrin         Description       UN3077	Cypermethrin (52315-07-8) Active Ingredient(s)	Type of Test	Result	
log Pow         5           Mobility in soil         Not expected to reach groundwater           Stability in water         Hydrolysis unstable at pH 9, half life 20-29 in pH 5 and 7.           Demical Name         log Pow           iodium Lawyl Sulfate         1.6           I. Disposal considerations         I.6           Waste disposal methods         Improper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes can 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 product label for container disposal instructions.           20T         Not regulated for transportation if shipped in Non Bulk packaging. The classification below per to the shipment in Bulk packaging.           Packaging Type         Bulk.           Proper shipping name         Environmentally hazardous substance, solid, n.o.s.           Hazard Class         9           UNID No         UN1077, Environmentally hazardous substance, solid, n.o.s.           Proper shipping name         Environmentally hazardous substance, solid, n.o.s.           Proper shipping name         Environmentally hazardous substance, solid, n.o.s.           Proper shipping name         Environmentally hazardous substance, solid, n.o.s.           Prescing group				
log Pow         5           Mobility in soil         Not expected to reach groundwater           Stability in water         Hydrolysis unstable at pH 9, half life 20-29 at pH 5 and 7.           Immical Name         log Pow           odum Lauryl Suthite         1.6           3. Disposal considerations         Inproper disposal of excess pesticide, spray mixture, or rinsate is prohibited. If these wastes can 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 product label for container disposal instructions.           4. Transport information         DOT           Not regulated for transportation if shipped in Non Bulk packaging. The classification below pe to the shipment in Bulk packaging.           Packaging Type         Bulk.           Proper shipping name         Environmentally hazardous substance, solid, n.o.s.           Hazard Class         9           UNID No         UN3077           Packing group         III           Marine pollutant         Cypermethrin.           Orgen shipping name         Environmentally hazardous substance, solid, n.o.s.           Hazard Class         9           UN1D No         UN3077           Evering forup         III		Half-life in soil	2 - 4 weeks	
Mobility in sail         Not expected to reach groundwater           Stability in water         Hydrolysis unsable at pH 9, half life 20-29 at pH 5 and 7.           Stability in water         Hydrolysis unsable at pH 9, half life 20-29 at pH 5 and 7.           Stability in water         I.6           Stability in water         I.6 <t< td=""><td></td><td>log Pow</td><td>5</td></t<>		log Pow	5	
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Packing groupIIIMarine pollutantCypermethrin		Enviornmentally hazardous substance, solid, n.o.s.		
Marine pollutant Cypermethrin				
<b>Description</b> UN3077, Environmentally hazardous substance, solid, toxic (Cypermethrin), 9, PG III, Marine	-			
Pollutant	Description			

Proper shipping name	Enviornmentally hazardous substance, solid, n.o.s.		
Hazard Class	9		
UN/ID No	UN3077		
Packing group	III		
EmS No.	F-A, S-F		
Marine pollutant	Cypermethrin		
Description	UN3077, Environmentally hazardous substance, solid, toxic (Cypermethrin), 9, PG III, Marine Pollutant		

#### 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 Hazard	yes
Chronic Health Hazard	yes
Fire Hazard	no
Sudden Release of Pressure Hazard	no
Reactive Hazard	no

#### 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

Chemical Name	Carcinogen Status	Mexico
Proprietary Material		Mexico: TWA 10 mg/m <sup>3</sup>

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: Reason for revision: 2012-04-25 (M)SDS sections updated. Disclaimer

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**End of Material Safety Data Sheet**