




INSECTICIDE

### Only for Use and Storage by Pest Control Operators

EPA Reg. No. 279-3070

EPA Est. No. 279-

Active Ingredient:	By Wt.
*Cypermethrin** .....	40.0%
Other Ingredients .....	60.0%
	100.0%

\* $\alpha$ ( $\pm$ ) Cyano (3-phenoxyphenyl) methyl ( $\pm$ ) cis/trans 3-(2,2-dichloroethyl)-2, 2-dimethylcyclopropanecarboxylate  
 \*\*Cis/trans ratio: Max. 55% ( $\pm$ ) cis and min. 45% ( $\pm$ ) trans

## KEEP OUT OF REACH OF CHILDREN WARNING

See other panels for additional precautionary information.

Active ingredient made in China, formulated and packaged in U.S.A.



FMC Corporation  
Agricultural Products Group  
Philadelphia PA 19103

### FIRST AID

<b>If swallowed</b>	<ul style="list-style-type: none"> <li>• Call poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by the poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If in eyes</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If inhaled</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>HOTLINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-(800)-331-3148 for Emergency Assistance.	
<b>For Information Regarding the Use of this Product Call 1-800-321-1FMC (1362).</b>	

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans (and Domestic Animals)

##### Warning

Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear goggles, face shield or safety glasses. Harmful if swallowed, inhaled or absorbed through skin. Avoid contact with skin, eyes, or clothing. Avoid breathing vapor or spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Prolonged or frequently repeated skin contact may cause allergic reaction in some individuals, Remove and wash contaminated clothing before reuse.

#### Environmental Hazards

This product is extremely toxic to fish and other aquatic organisms. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water by cleaning of equipment or disposal of equipment washwaters. Apply this product only as specified on this label. Care should be used when spraying to avoid fish and reptile pets.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product through any type of irrigation system.

Do not use in edible product areas of food processing plants, restaurants, or other areas where food is commercially prepared or processed.

Do not use in serving areas while food is exposed.

## STORAGE AND DISPOSAL

### Pesticide Storage

Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call FMC: (800) 331-3148.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter, or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

### Pesticide Disposal

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

### Container Disposal

Metal Container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other approved State and local procedures. Do not cut or weld metal containers.

Plastic Container: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

## General Instructions

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior landscapes, ornamental gardens or parks, or lawns and grounds.

For residual pest control in and on buildings and structures and their immediate surroundings and on modes of transport.

Cynoff WP Insecticide is to be diluted with water for spray application. Do not use strainers finer than 50 mesh size. Fill sprayer with one half of the desired volume of water, add Cynoff WP, and fill to desired volume. Close and shake before use in order to insure proper suspension of the wettable powder. Shake or re-agitate the sprayer before use if spraying is interrupted. Mix only the amount of solution needed for the application. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application should be limited to no more than once per seven days.

Pests	Concentration of Active Ingredient	Dilution Rate
Ants	.1%	0.33 ounces of Cynoff WP per 1 gallon of water
Biting Flies*†		
Boxelder Bugs		
Centipedes		
Cockroaches (maintenance)		
Crickets		
Earwigs		
Elm Leaf Beetles†		
Bees	.2%	0.66 ounces of Cynoff WP per 1 gallon of water
Cockroaches (clean-out)		
Spiders		
Ticks		
Wasps		

\* Outdoor use only.

† Not for use in California

1 Scoop = 0.33 ounces

**Cockroaches, Crickets, Firebrats, Silverfish, Spiders, and Ticks:** Apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerator,

cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices; also see OUTDOOR USE.

**Ants:** Apply to any trails, around doors and windows, and other places where ants may be found. Refer to BARRIER TREATMENT directions to prevent infestation; also see OUTDOOR USE.

**Bees and Wasps:** Application to nests should be made late in the evening when insects are at rest. Thoroughly spray nest and entrance and surrounding areas where insects alight; also see OUTDOOR USE.

**Boxelder Bugs, Centipedes, Earwigs, Elm Leaf Beetles, Millipedes, Pillbugs, and Sowbugs:** Apply around doors and windows and other places where these pests may be found or where they may enter premises. Spray baseboards, storage areas and other locations. Refer to BARRIER TREATMENT directions to prevent infestation; also see OUTDOOR USE.

**Food Handling Establishments:** Places other than private residences in which food is held, processes, prepared or served.

**Non-Food Areas:** Permitted areas of use include industrial buildings, houses, apartment buildings, laboratories, buses, greenhouses (non-commercial), and the nonfood/feed areas of stores, warehouses, vessels, railcars, trucks, trailers, aircraft (Do not use in aircraft cabins), schools, nursing homes, hospitals, restaurants, hotels, and food manufacturing, processing, and servicing establishments. Non-food/feed areas are areas such as garbage rooms, lavatories, floor drains (to sewers) entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets, and storage (after canning or bottling). Cynoff WP insecticide may be used as a general spot, crack and crevice treatment in non-food areas. All areas where insects hide or through which insects may enter should be treated.

**Food Areas:** Do not use in food/feed areas of food handling establishments, restaurants or other areas where food is commercially prepared or processed. Do not use in serving areas while food/feed is exposed or facility is in operation. Serving areas are areas where prepared foods are served such as dining rooms, but excluding areas where foods may be prepared or held. In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food/feed should be covered or removed. Not for use in Federally inspected meat and poultry plants.

## OUTDOOR USE:

For control of ants, bees, biting flies, boxelder bugs, centipedes, cockroaches, crickets, earwigs, elm leaf beetles, firebrats, fleas, flies, millipedes, mosquitoes, pillbugs, silverfish, sowbugs, spiders, ticks, and wasps. Apply as a residual spray either by hand or power sprayer to surfaces of buildings, porches, screens, window frames, eaves, patios, residential lawns only such grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, refuse dumps, garages and other areas where pests are found. Remove all exposed food and cooking utensils. Cover all food handling surfaces or wash thoroughly after treatment and before use.

**Barrier Treatments:** To help prevent infestation of buildings, apply to a band of soil and vegetation 6 to 10 feet wide around and adjacent to the building. Also, treat the building foundation to a height of 2 to 3 feet where pests are active and may find entrance. Apply as a coarse spray to thoroughly and uniformly wet the band area, using 1 gallon of spray mix per 400 square feet.

**Caution:** Do not use water base sprays of Cynoff WP insecticide in conduits, motor housings, junction boxes, switch boxes, or other electrical equipment because of possible shock hazard.

Do not apply this product to edible crops.

Let surfaces dry before allowing children and pets to contact surfaces.

Protect aquariums from spray mist.

Thoroughly wash out sprayer and screen with water and detergent before using Cynoff WP insecticide.

Do not use this product with oil.

Do not treat pets with this product.

Do not apply in classrooms when in use.

Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm.

## Conditions of Sale and Limitation of Warranty and Liability:

**NOTICE:** Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

**Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) seller or FMC, and buyer assumes the risk of any such use.**

To the extent allowed by law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

Cynoff and FMC —FMC Trademarks

(1070-3/12/04)

### Revisions:

1. First Aid statements upgrade per PR Notice.
2. Revision of Precautionary Statements.
3. Expansion of retreatment text.
4. Revision of text for "Food Areas".

# 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

<b>Product name</b>	Cynoff® WP Insecticide
<b>Formula code</b>	1070-A
<b>Active Ingredient(s)</b>	Cypermethrin
<b>Synonyms</b>	FMC 30980; (RS)- $\alpha$ -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
<b>Chemical Family</b>	Pyrethroid Pesticide
<b>Recommended use</b>	Insecticide
<b>Manufacturer</b> FMC Corporation Agricultural Products Group 1735 Market Street Philadelphia, PA 19103 General Information: Phone: (215) 299-6000 E-Mail: msdsinfo@fmc.com	<b>Emergency telephone number</b>  (800) 331-3148 (FMC - U.S.A. & Canada) (716) 735-3765 (FMC - Reverse charges)  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)

### 2. Hazards identification

<b>Appearance</b>	Light-tan powder
<b>Physical state</b>	solid
<b>Odor</b>	Low
<b>Physical or Chemical Hazards</b>	.
<b>Potential health effects</b>	
<b>Acute effects</b>	
<b>Eyes</b>	May cause slight irritation.
<b>Skin</b>	May cause sensitization by skin contact. Substance may cause slight skin irritation.
<b>Inhalation</b>	May cause irritation of respiratory tract. May cause additional effects as listed under "Ingestion".
<b>Ingestion</b>	Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. May cause central nervous system depression.
<b>Chronic effects</b>	Effects are expected to be similar to those that are seen with acute toxicity.
<b>Environmental hazard</b>	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.
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 increase absorption and so should be avoided.

**5. Fire-fighting measures**

<b>Sensitivity to Mechanical Impact</b>	not applicable
<b>Sensitivity to Static Discharge</b>	not applicable
<b>Suitable extinguishing media</b>	Carbon dioxide (CO <sub>2</sub> ), Dry chemical, Alcohol-resistant foam, Water spray.
<b>Protective equipment and precautions for firefighters</b>	Wear self-contained breathing apparatus and protective suit.

**NFPA**

<b>Health Hazard</b>	2
<b>Flammability</b>	1
<b>Stability</b>	0
<b>Special Hazards</b>	-

**6. Accidental release measures**

<b>Personal precautions</b>	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.
<b>Environmental precautions</b>	Keep people and animals away from and upwind of spill/leak. Keep material out of lakes, streams, ponds, and sewer drains.
<b>Methods for containment</b>	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 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 mg/m <sup>3</sup>	TWA: 10 mg/m <sup>3</sup> TWA: 5 mg/m <sup>3</sup>	Mexico: TWA 10 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** Light-tan powder  
**Color** Light tan

<b>Physical state</b>	solid
<b>Odor</b>	Low
<b>pH</b>	8.7 @ 20 °C (5 % solution) (as aqueous solution)
<b>Melting Point/Range</b>	No information available.
<b>Freezing point</b>	No information available
<b>Boiling Point/Range</b>	No information available.
<b>Flash Point</b>	not applicable
<b>Evaporation rate</b>	No information available
<b>Autoignition Temperature</b>	No information available.
<b>Vapor pressure</b>	No information available
<b>Vapor density</b>	No information available
<b>Density</b>	0.28 - 0.38 g/mL
<b>Bulk density</b>	18-24 lb/cu ft
<b>Water solubility</b>	Dispersible in water
<b>Percent volatile</b>	No information available
<b>Partition coefficient:</b>	No information available.
<b>Viscosity</b>	No information available
<b>Oxidizing properties</b>	not applicable

## 10. Stability and reactivity

<b>Stability</b>	Stable
<b>Conditions to avoid</b>	Heat, flames and sparks
<b>Hazardous decomposition products</b>	Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon oxides, Hydrogen cyanide, Chlorine, Hydrogen chloride.
<b>Hazardous polymerization</b>	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.

<b>Eye contact</b>	Slightly or non-irritating (rabbit).
<b>Skin contact</b>	Slightly or non-irritating (rabbit).

<b>LD50 Dermal</b>	> 2000 mg/kg (rabbit)
<b>LD50 Oral</b>	2342 mg/kg (rat)
<b>LC50 Inhalation:</b>	Cypermethrin 2.5 mg/L 4 hr (rat)

<b>Sensitization</b>	Sensitizer
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### Chronic Toxicity - Other Ingredient(s)

<b>Chronic Toxicity</b>	Effects are expected to be similar to those that are seen with acute toxicity.
<b>Carcinogenicity</b>	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).
<b>Mutagenicity</b>	Cypermethrin: Not genotoxic.
<b>Reproductive toxicity</b>	Cypermethrin: No toxicity to reproduction.

<b>Neurological Effects</b>	Cypermethrin did not cause neurotoxicity in animal experiments.
<b>Developmental Toxicity</b>	Cypermethrin: Not teratogenic in animal studies.
<b>Target Organ Effects</b>	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** Cypermethrin  
**Ecotoxicity**

**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	53 mg/L EC50 72 h (Desmodesmus subspicatus) 30 - 100 mg/L EC50 96 h (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 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		EC50 1.8 mg/L 48 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 Type** Bulk.  
**Proper shipping name** Environmentally hazardous substance, solid, n.o.s.  
**Hazard Class** 9  
**UN/ID No** UN3077  
**Packing group** III  
**Marine pollutant** Cypermethrin  
**Description** UN3077, Environmentally hazardous substance, solid, toxic (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.

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

**ICAO/IATA**

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

**IMDG/IMO**

<b>Proper shipping name</b>	Environmentally hazardous substance, solid, n.o.s.
<b>Hazard Class</b>	9
<b>UN/ID No</b>	UN3077
<b>Packing group</b>	III
<b>EmS No.</b>	F-A, S-F
<b>Marine pollutant</b>	Cypermethrin
<b>Description</b>	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**

<b>Acute Health Hazard</b>	yes
<b>Chronic Health Hazard</b>	yes
<b>Fire Hazard</b>	no
<b>Sudden Release of Pressure Hazard</b>	no
<b>Reactive Hazard</b>	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:** 2012-04-25  
**Reason for revision:** (M)SDS sections updated.

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**End of Material Safety Data Sheet**