SAFETY DATA SHEET **CYNOFF® EC INSECTICIDE**

SDS #: 1167-A

Revision date: 2016-06-28

Format: NA Version 1.05



1. PRODUCT AND COMPANY IDENTIFICATION

Product Identifier

Product Name CYNOFF® EC INSECTICIDE

Other means of identification

Product Code(s) 1167-A

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

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

name); cyano(3-phenoxyphenyl)methyl

3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name)

Active Ingredient(s) Cypermethrin

Chemical Family Pyrethroid Pesticide

Recommended use of the chemical and restrictions on use

Recommended Use: Insecticide

Restrictions on Use: Use as recommended by the label

Manufacturer Address

FMC Corporation 2929 Walnut Street Philadelphia, PA 19104

(215) 299-6000 (General Information)

msdsinfo@fmc.com (E-Mail General Information)

Emergency telephone number

Medical Emergencies:

1 800 / 331-3148 (PROSAR - U.S.A. & Canada)

1 651 / 632-6793 (PROSAR - All Other Countries - Collect)

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

Classification

OSHA Regulatory Status

This material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

Acute toxicity - Oral	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

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GHS Label elements, including precautionary statements

EMERGENCY OVERVIEW

Warning

Hazard Statements

- H302 Harmful if swallowed
- H313 May be harmful in contact with skin
- H332 Harmful if inhaled
- H373 May cause damage to organs through prolonged or repeated exposure
- H335 May cause respiratory irritation
- H336 May cause drowsiness or dizziness



Precautionary Statements - Prevention

- P264 Wash face, hands and any exposed skin thoroughly after handling
- P270 Do not eat, drink or smoke when using this product
- P260 Do not breathe dust/fume/gas/mist/vapors/spray

Precautionary Statements - Response

- P314 Get medical advice/ attention if you feel unwell
- 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 + P312 IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell
- P330 Rinse mouth

Precautionary Statements - Storage

P403 + P233 - Store in a well-ventilated place. Keep container tightly closed

P405 - Store locked up

Precautionary Statements - Disposal

P501 - Dispose of contents/container to an approved waste disposal plant

Hazards not otherwise classified (HNOC)

No hazards not otherwise classified were identified.

Other Information

Very toxic to aquatic life with long lasting effects.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical Family

Pyrethroid Pesticide.

Chemical name	CAS-No	Weight %
Cypermethrin	52315-07-8	24.81

Synonyms are provided in Section 1.

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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 further treatment advice.

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

ambulance, then give artificial respiration, preferably 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.

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. 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

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

Specific Hazards Arising from the

Chemical

Explosion data

Sensitivity to Mechanical Impact Sensitivity to Static Discharge None known

Not sensitive. Not sensitive.

Protective equipment and precautions for firefighters

Wear self-contained breathing apparatus and protective suit.

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.

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

"Product and Company Identification" above.

Environmental Precautions See Section 12 for additional Ecological Information.

Methods for Containment Dike to prevent runoff. Absorb with earth, sand or other non-combustible material and

transfer to containers for later disposal.

Methods for cleaning up 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.

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. Keep/store only in

original container.

Incompatible products None known

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8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

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.

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

Appearance Amber Liquid
Physical State Liquid
Color Amber
Odor Soapy

Odor threshold No information available

pH 5.5

Melting point/freezing point 0 °C / 32 °F

Boiling Point/Range
No information available
115 °C / 239 °F Closed cup
Evaporation Rate
No information available

Flammability (solid, gas)

Flammability Limit in Air

Upper flammability limit:
Lower flammability limit:
Vapor pressure
Vapor density
No information available

Specific gravity 0.96 @ 20 °C Water solubility Emulsifies

Solubility in other solvents
Partition coefficient
Autoignition temperature
Decomposition temperature
No information available
No information available
No information available

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Viscosity, kinematic
Viscosity, dynamic
Explosive properties
Oxidizing properties
Molecular weight
No information available
No information available
No information available

Bulk density 7.99 lb/gal

10. STABILITY AND REACTIVITY

Reactivity Not applicable

Chemical Stability Stable under recommended storage conditions.

Possibility of Hazardous Reactions None under normal processing.

Hazardous polymerization Hazardous polymerization does not occur.

Conditions to avoid Heat, flames and sparks

Incompatible materials None known.

Hazardous Decomposition Products Thermal decomposition can lead to release of irritating and toxic gases and vapors: Carbon

oxides (COx), Hydrogen cyanide, Chlorine, Hydrogen chloride,

11. TOXICOLOGICAL INFORMATION

Product Information

 LD50 Oral
 1105 mg/kg (rat)

 LD50 Dermal
 > 2000 mg/kg (rabbit)

 LC50 Inhalation
 1.8 mg/L (rat) 4 hr

Serious eye damage/eye irritation

Skin corrosion/irritation Sensitization Minimally irritating. Minimally irritating. Non-sensitizing.

Information on toxicological effects

Symptoms Large doses of cypermethrin ingested by laboratory animals produced signs of toxicity

including loss of motor control, tremors, decreasedactivity, urinary incontinence,

incoordination, increased sensitivity to sound and convulsions.

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Chronic toxicity Cypermethrin: Long-term exposure caused neurotoxicity (body tremors, decreased motor

activity), decreased body weight and increased liver and spleen weight.

Mutagenicity Cypermethrin: Not genotoxic in laboratory studies.

Carcinogenicity Cypermethrin caused an increase in benign lung tumors in mice, but not in rats. EPA has

classified cypermethrin as a possible human carcinogen based on this information, but

does not regulate based on its low cancer risk.

Neurological effects Cypermethrin: Causes clinical signs of neurotoxicity (body tremors, decreased motor

activity and impaired gait) following acute, subchronic or chronic exposure.

Reproductive toxicityCypermethrin: No toxicity to reproduction in animal studies.

Developmental toxicityCypermethrin: Not teratogenic in animal studies.

STOT - single exposure May cause respiratory irritation. See listed target organs below.

STOT - repeated exposure May cause damage to organs through prolonged or repeated exposure. See listed target

organs below.

Target organ effects Cypermethrin: Central Nervous System.

Neurological effects Cypermethrin: Causes clinical signs of neurotoxicity (body tremors, decreased motor

activity and impaired gait) following acute, subchronic or chronic exposure.

Aspiration hazard No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Cypermethrin		Group 2A		
52315-07-8				

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IARC (International Agency for Research on Cancer) Group 2A - Probably Carcinogenic to Humans

12. ECOLOGICAL INFORMATION

Ecotoxicity

Cypermethrin (52315-07-8)				
Active Ingredient(s)	Duration	Species	Value	Units
Cypermethrin	48 h EC50	Crustacea	0.3	μg/L
	96 h LC50	Fish	2.8	μg/L
	72 h EC50	Algae	> 0.1	mg/L
	21 d NOEC	Crustacea	0.04	μg/L
	21 d NOEC	Fish	0.03	μg/L
	96 h NOEC	Algae	1.3	mg/L

biodegradable.

Bioaccumulation Cypermethrin: The substance has a potential for bioconcentration.

Mobility Cypermethrin: Immobile. Not expected to reach groundwater.

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

DOTNot regulated for transportation if shipped in Non Bulk packaging. The classification below

pertains to the shipment in Bulk packaging.

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Hazard class 9
Packing Group III

Marine Pollutant Cypermethrin.

Description UN3082, Environmentally hazardous substance, liquid, toxic (Cypermethrin), 9, PGIII,

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 UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Hazard class 9
Packing Group III

Marine Pollutant Cypermethrin.

DescriptionUN3082, Environmentally hazardous substance, liquid, toxic (Cypermethrin), 9, PGIII,

Marine Pollutant

ICAO/IATA

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

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Hazard class 9
Packing Group III

Description UN3082, Environmentally hazardous substance, liquid, toxic (Cypermethrin), 9, PGIII,

Marine Pollutant

IMDG/IMO

UN/ID no UN3082

Proper Shipping Name Environmentally hazardous substance, liquid, n.o.s.

Hazard class 9
Packing Group III
EmS No. F-A, S-F
Marine Pollutant Cypermethrin

Description UN3082, Environmentally hazardous substance, liquid, toxic (Cypermethrin), 9, PGIII,

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

Clean Water Act

This product does not contain any substances regulated as pollutants pursuant to the Clean Water Act (40 CFR 122.21 and 40 CFR 122.42)

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):

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

Harmful if inhaled, swallowed or absorbed through the skin. Causes moderate eye irritation.

This product is extremely toxic to fish and other aquatic organisms.

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
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		VCI 31011 1.00
Cypermethrin	X	
52315-07-8		

International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINC S (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Cypermethrin			Х		X	X	X	Х
52315-07-8								

Mexico - Grade Serious risk, Grade 3

WHMIS Hazard Class
D1B - Toxic materials
D2A - Very toxic materials





16. OTHER INFORMATION

NFPA	Health Hazards 2	Flammability 1	Instability 0	Special Hazards -
HMIS	Health Hazards 2*	Flammability 1	Physical hazard 0	Personal Protection X

*Indicates a chronic health hazard.

NFPA/HMIS Ratings Legend Severe = 4; Serious = 3; Moderate = 2; Slight = 1; Minimal = 0

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Reason for revision: (M)SDS sections updated

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End of Safety Data Sheet