

# SAFETY DATA SHEET

## Cynoff WP

SDS # : 1070-A  
Revision date: 2019-09-18  
Format: NA  
Version 1.02



### 1. PRODUCT AND COMPANY IDENTIFICATION

#### Product Identifier

**Product Name** Cynoff WP

#### Other means of identification

**Product Code(s)** 1070-A

**Synonyms** CYPERMETHRIN (FMC 30980); (RS)- $\alpha$ -cyano-3-phenoxybenzyl (1RS,3RS;1RS,3SR)-3-(2,2-dichlorovinyl)-2,2-dimethylcyclopropanecarboxylate (IUPAC name); cyano(3-phenoxyphenyl)methyl 3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate (CAS name)

**Active Ingredient(s)** Cypermethrin

**Chemical Family** Pyrethroid Pesticide

**Alternate Commercial Name** Cynoff 40 WP

#### Recommended use of the chemical and restrictions on use

**Recommended Use:** Insecticide

**Restrictions on Use:** Use as recommended by the label.

#### Supplier Address

FMC Corporation  
2929 Walnut Street  
Philadelphia, PA 19104  
(215) 299-6000 (General Information)  
SDS-Info@fmc.com (E-Mail General Information)

#### Emergency telephone number

Medical Emergencies :  
1 800 / 331-3148 (U.S.A. & Canada)  
1 651 / 632-6793 (All Other Countries - Collect)

For leak, fire, spill or accident emergencies, call:  
1 800 / 424-9300 (CHEMTREC - U.S.A.)  
1 703 / 741-5970 (CHEMTREC - International)  
1 703 / 527-3887 (CHEMTREC - Alternate)

### 2. HAZARDS IDENTIFICATION

#### Classification

#### OSHA Regulatory Status

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

Acute toxicity - Dermal	Category 4
Acute toxicity - Inhalation (Dusts/Mists)	Category 4
Carcinogenicity	Category 2

Specific target organ toxicity (single exposure)	Category 3
Specific target organ toxicity (repeated exposure)	Category 2

**GHS Label elements, including precautionary statements**

**EMERGENCY OVERVIEW**

**Danger**

**Hazard Statements**

H332 - Harmful if inhaled

H335 - May cause respiratory irritation

H350 - May cause cancer

H373 - May cause damage to organs through prolonged or repeated exposure

H336 - May cause drowsiness or dizziness



**Precautionary Statements - Prevention**

P202 - Do not handle until all safety precautions have been read and understood

P271 - Use only outdoors or in a well-ventilated area

P260 - Do not breathe dust/fume/gas/mist/vapors/spray

P264 - Wash face, hands and any exposed skin thoroughly after handling

P270 - Do not eat, drink or smoke when using this product

**Precautionary Statements - Response**

P308 + P313 - If exposed or concerned: Get medical advice/attention

P314 - Get medical advice/ attention if you feel unwell

P312 - Call a POISON CENTER or doctor if you feel unwell

P363 - Wash contaminated clothing before reuse

P304 + P340 - IF INHALED: Remove person to fresh air and keep comfortable for breathing

P301 + P310 - IF SWALLOWED: Immediately call a POISON CENTER or doctor

P330 - Rinse mouth

**Precautionary Statements - Storage**

P405 - Store locked up

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

**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. May be harmful in contact with skin.

**3. COMPOSITION/INFORMATION ON INGREDIENTS**

**Chemical Family** Pyrethroid Pesticide.

Chemical name	CAS-No	Weight %
Cypermethrin	52315-07-8	40
Calcium Silicate	1344-95-2	20-30
Amorphous silica gel	7631-86-9	20-30

Sodium Lauryl Sulfate	151-21-3	<5
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Synonyms are provided in Section 1.

#### 4. FIRST AID MEASURES

<b>Eye Contact</b>	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.
<b>Skin Contact</b>	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.
<b>Inhalation</b>	Move to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.
<b>Ingestion</b>	Clean mouth with water and afterwards drink plenty of water. 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.
<b>Most important symptoms and effects, both acute and delayed</b>	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>Indication of immediate medical attention and special treatment needed, if necessary</b>	Treat symptomatically. This product contains 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>Suitable Extinguishing Media</b>	Carbon dioxide (CO <sub>2</sub> ), Dry chemical, Alcohol-resistant foam, Water spray. Avoid heavy hose streams.
<b>Specific Hazards Arising from the Chemical</b>	None known
<b><u>Explosion data</u></b>	
<b>Sensitivity to Mechanical Impact</b>	No information available.
<b>Sensitivity to Static Discharge</b>	No information available.
<b>Protective equipment and precautions for firefighters</b>	As in any fire, wear self-contained breathing apparatus and full protective gear. Isolate fire area. Evaluate upwind.

#### 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>Other</b>	For further clean-up instructions, call FMC Emergency Hotline number listed in Section 1 "Product and Company Identification" above.
<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.
<b>Methods for cleaning up</b>	Sweep up and shovel into suitable containers for disposal. Clean and neutralize spill area, tools and equipment by washing with 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

<b>Handling</b>	Handle in accordance with good industrial hygiene and safety practice. Do not contaminate other pesticides, fertilizers, water, food, or feed by storage or disposal.
<b>Storage</b>	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.
<b>Incompatible products</b>	No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Control parameters

Chemical name	ACGIH TLV	OSHA PEL	NIOSH	Mexico
Calcium Silicate (1344-95-2)	TWA: 10 mg/m <sup>3</sup> TWA: 3 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>
Amorphous silica gel (7631-86-9)	-	-	IDLH: 3000 mg/m <sup>3</sup> TWA: 6 mg/m <sup>3</sup>	-
Chemical name	British Columbia	Quebec	Ontario TWAEV	Alberta
Calcium Silicate (1344-95-2)	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>

### Appropriate engineering controls

<b>Engineering measures</b>	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.
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### Individual protection measures, such as personal protective equipment

<b>Eye/Face Protection</b>	For dust, splash, mist or spray exposure, wear chemical protective goggles.
<b>Skin and Body Protection</b>	Wear long-sleeved shirt, long pants, socks, and shoes.
<b>Hand Protection</b>	Use protective gloves made of chemical materials such as nitrile or neoprene. Wash the outside of gloves with soap and water before reuse. Check regularly for leaks.
<b>Respiratory Protection</b>	For dust, splash, mist or spray exposures, wear a filtering mask.
<b>Hygiene measures</b>	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.
<b>General information</b>	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

<b>Appearance</b>	Light-tan powder
<b>Physical State</b>	Solid
<b>Color</b>	Light tan
<b>Odor</b>	Low
<b>Odor threshold</b>	No information available
<b>pH</b>	8.7

Melting point/freezing point	Not applicable
Boiling Point/Range	No information available
Flash point	Not applicable
Evaporation Rate	No information available
Flammability (solid, gas)	No information available
Flammability Limit in Air	
Upper flammability limit:	No information available
Lower flammability limit:	No information available
Vapor pressure	No information available
Vapor density	No information available
Relative density	0.28 - 0.38 g/mL
Specific gravity	No information available
Water solubility	Dispersible in water
Solubility in other solvents	No information available
Partition coefficient	No information available
Autoignition temperature	No information available
Decomposition temperature	No information available
Viscosity, kinematic	No information available
Viscosity, dynamic	No information available
Explosive properties	No information available
Oxidizing properties	No information available
Molecular weight	No information available
Bulk density	18-24 lb/cu ft

## 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	No information available.
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	2342 mg/kg (rat)
LD50 Dermal	> 2000 mg/kg (rabbit)
LC50 Inhalation	Cypermethrin: 2.5 mg/L 4 hr (rat)

Serious eye damage/eye irritation	No information available.
Skin corrosion/irritation	No information available.
Sensitization	Non-sensitizing

Chemical name	LD50 Oral	LD50 Dermal	LC50 Inhalation
Calcium Silicate (1344-95-2)	> 5000 mg/kg ( Rat )		
Amorphous silica gel (7631-86-9)	= 7900 mg/kg ( Rat )	> 2000 mg/kg ( Rabbit )	> 2.2 mg/L ( Rat ) 1 h
Sodium Lauryl Sulfate (151-21-3)	= 1288 mg/kg ( Rat )	= 200 mg/kg ( Rabbit )	> 3900 mg/m <sup>3</sup> ( Rat ) 1 h

### Information on toxicological effects

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

<b>Chronic toxicity</b>	Long-term exposure caused neurotoxicity (body tremors, decreased motor activity), decreased body weight and increased liver and spleen weight.
<b>Mutagenicity</b>	Cypermethrin: Not genotoxic in animal studies.
<b>Carcinogenicity</b>	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.
<b>Neurological effects</b>	Cypermethrin: Causes clinical signs of neurotoxicity (body tremors, decreased motor activity and impaired gait) following acute, subchronic or chronic exposure.
<b>Reproductive toxicity</b>	Cypermethrin: No toxicity to reproduction in animal studies.
<b>Developmental toxicity</b>	Cypermethrin: Not teratogenic in animal studies.
<b>STOT - single exposure</b>	Causes damage to organs. See listed target organs below.
<b>STOT - repeated exposure</b>	Causes damage to organs through prolonged or repeated exposure. See listed target organs below.
<b>Target organ effects</b>	Cypermethrin: Central Nervous System (CNS)
<b>Neurological effects</b>	Cypermethrin: Causes clinical signs of neurotoxicity (body tremors, decreased motor activity and impaired gait) following acute, subchronic or chronic exposure.
<b>Aspiration hazard</b>	No information available.

Chemical name	ACGIH	IARC	NTP	OSHA
Amorphous silica gel 7631-86-9		Group 3	Known	

#### Legend:

IARC (International Agency for Research on Cancer)  
Group 3 - Not classifiable as to its carcinogenicity to humans  
NTP (National Toxicology Program)  
Known - Known Carcinogen

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

<b>Cypermethrin (52315-07-8)</b>				
Active Ingredient(s)	Duration	Species	Value	Units
	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
	96 h LC50	Rainbow trout	0,92	µg/L
	48 h EC50	Daphnia magna	1,86	µg/L

Chemical name	Toxicity to algae	Toxicity to fish	Toxicity to daphnia and other aquatic invertebrates
Sodium Lauryl Sulfate 151-21-3	96 h EC50: 3.59 - 15.6 mg/L (Pseudokirchneriella subcapitata) static 96 h EC50: 30 - 100 mg/L (Desmodesmus subspicatus) 96 h EC50: = 117 mg/L (Pseudokirchneriella subcapitata) 72 h EC50: = 53 mg/L (Desmodesmus subspicatus)	96 h LC50: 10.2 - 22.5 mg/L (Pimephales promelas) semi-static 96 h LC50: 10.8 - 16.6 mg/L (Poecilia reticulata) static 96 h LC50: 13.5 - 18.3 mg/L (Poecilia reticulata) semi-static 96 h LC50: 15 - 18.9 mg/L (Pimephales promelas) static 96 h LC50: 22.1 - 22.8 mg/L (Pimephales promelas) static 96 h LC50: 4.06 - 5.75 mg/L (Lepomis macrochirus) static 96 h	48 h EC50: = 1.8 mg/L (Daphnia magna)

		LC50: 4.2 - 4.8 mg/L (Lepomis macrochirus) flow-through 96 h LC50: 4.3 - 8.5 mg/L (Oncorhynchus mykiss) static 96 h LC50: 5.8 - 7.5 mg/L (Pimephales promelas) static 96 h LC50: 6.2 - 9.6 mg/L (Pimephales promelas) 96 h LC50: 8 - 12.5 mg/L (Pimephales promelas) static 96 h LC50: 9.9 - 20.1 mg/L (Brachydanio rerio) semi-static 96 h LC50: = 1.31 mg/L (Cyprinus carpio) semi-static 96 h LC50: = 4.2 mg/L (Oncorhynchus mykiss) 96 h LC50: = 4.5 mg/L (Lepomis macrochirus) 96 h LC50: = 4.62 mg/L (Oncorhynchus mykiss) flow-through 96 h LC50: = 7.97 mg/L (Brachydanio rerio) flow-through	
Cypermethrin 52315-07-8	>0,1 mg/L	0,69 ug/L (96 h); 0,015 ug/L (21 d)	0,14 ug/L (48 h); 0,01 ug/L (21d)
Amorphous silica gel 7631-86-9	72 h EC50: = 440 mg/L (Pseudokirchneriella subcapitata)	96 h LC50: = 5000 mg/L (Brachydanio rerio) static	48 h EC50: = 7600 mg/L (Ceriodaphnia dubia)
Sodium sulfate 7757-82-6		96 h LC50: 13500 - 14500 mg/L (Pimephales promelas) 96 h LC50: 3040 - 4380 mg/L (Lepomis macrochirus) static 96 h LC50: = 13500 mg/L (Lepomis macrochirus) 96 h LC50: > 6800 mg/L (Pimephales promelas) static	48 h EC50: = 2564 mg/L (Daphnia magna) 96 h EC50: = 630 mg/L (Daphnia magna)

**Persistence and degradability**

Cypermethrin: Moderately persistent, Does not readily hydrolyze, Not readily biodegradable.

**Bioaccumulation**

Cypermethrin: The substance has a low potential to bioaccumulate in the environment.

**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. Proper personal protective equipment, as described in Sections 7 and 8, must be worn while handling materials for waste disposal.

**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.

UN/ID no  
Proper Shipping Name  
Hazard class  
Packing Group  
Marine Pollutant  
Description

UN3077  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.  
9  
III  
Cypermethrin.  
UN3077, Environmentally hazardous substance, solid, n.o.s. (Cypermethrin), 9, III, 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  
Proper Shipping Name

UN3077  
ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

<b>Hazard class</b>	9
<b>Packing Group</b>	III
<b>Marine Pollutant</b>	Cypermethrin.
<b>Description</b>	UN3077, Environmentally hazardous substance, solid, n.o.s. (Cypermethrin), 9, III, Marine Pollutant

**ICAO/IATA**

<b>UN/ID no</b>	UN3077
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
<b>Hazard class</b>	9
<b>Packing Group</b>	III
<b>Description</b>	UN3077, Environmentally hazardous substance, solid, n.o.s. (Cypermethrin), 9, III, Marine Pollutant

**IMDG/IMO**

<b>UN/ID no</b>	UN3077
<b>Proper Shipping Name</b>	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
<b>Hazard class</b>	9
<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, n.o.s. (Cypermethrin), 9, 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

**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, 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

**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:*

**Warning**

*Causes substantial but temporary eye injury.*

*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
Cypermethrin 52315-07-8		X	
Calcium Silicate 1344-95-2	X	X	X
Amorphous silica gel 7631-86-9		X	X

### International Inventories

Chemical name	TSCA (United States)	DSL (Canada)	EINECS/ELINCS (Europe)	ENCS (Japan)	China (IECSC)	KECL (Korea)	PICCS (Philippines)	AICS (Australia)
Cypermethrin 52315-07-8			X		X	X	X	X
Calcium Silicate 1344-95-2	X	X	X	X	X	X	X	X
Amorphous silica gel 7631-86-9	X	X	X	X	X	X	X	X
Sodium Lauryl Sulfate 151-21-3	X	X	X	X	X	X	X	X

### Mexico - Grade

Moderate risk, Grade 2

Chemical name	Carcinogen Status	Mexico
Calcium Silicate		Mexico: TWA 10 mg/m <sup>3</sup>

### WHMIS Statement

This product has been classified in accordance with the Hazardous Products Regulations (HPR) and the SDS contains all the information required by the HPR.

### WHMIS Hazard Class

D2B - 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

### Revision date:

2019-09-18

### Reason for revision:

SDS sections updated

Disclaimer

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**End of Safety Data Sheet**