

Material Safety Data Sheet

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1. PRODUCT IDENTIFICATION

Product Name: **Surrender brand CYPER WP INSECTICIDE**
EPA Signal Word: Warning
Active Ingredient(%): Cypermethrin Technical (40.0%) CAS No.: 52315-07-8
Chemical Name: (\pm) α -cyano-(3-phenoxyphenyl)methyl (\pm)*cis, trans*-3-(2,2-dichloroethenyl)-2,2-dimethylcyclopropanecarboxylate
Chemical Class: A pyrethroid insecticide
EPA Reg. No.: 53883-29

2. COMPOSITION/INFORMATION ON INGREDIENTS

Material	OSHA PEL	ACGIH TLV	OTHER	NTP/IARC/OSHA Carcinogen
Silica	80 mg/m ³ /%SiO ₂ TWA (total dust)	10 mg/m ³ TWA (inhalable dust)	Not Established	IARC Group 3
Cypermethrin technical (40%)	Not Established	Not Established	10 mg/m ³ TWA (irritation) 10 mg/m ³ TWA	No

Ingredients not precisely identified are proprietary or non-hazardous. Values are not product necessarily specifications.

3. HAZARDS IDENTIFICATION

Symptoms of Acute Exposure.

May cause eye irritation. Allergic skin reactions are possible.

May cause temporary itching, tingling, burning or numbness of exposed skin, called paresthesia.

Hazardous Decomposition Products

Hydrogen cyanide gas may develop in the headspace of containers at normal storage temperatures. Can decompose at high temperatures forming toxic gases, including hydrogen cyanide.

Physical Properties

Appearance: Off-white powder

Odor: Slightly aromatic

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

4. FIRST AID MEASURES

If in Eyes:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.• Call a poison control center or doctor for treatment advice.
If on Skin or Clothing:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin with plenty of soap and water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
If Swallowed:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.

	<ul style="list-style-type: none"> • Have a person sip a glass of water if able to swallow. • Do not induce vomiting unless told to do so by the poison control center or doctor. • Do not give anything by mouth to an unconscious person.
If Inhaled:	<ul style="list-style-type: none"> • 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 for further treatment advice.
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.	

Notes to Physician

There is no specific antidote if this product is ingested.
Treat symptomatically.
Skin contact paresthesia effects (itching, tingling, burning or numbness) are transient, lasting up to 24 hours. Treat symptomatically.

5. FIRE FIGHTING MEASURES

Fire and Explosion

Flash Point (Test Method): Not Applicable.
Flammable Limits (% in Air): Lower: % Not Applicable Upper: % Not Applicable
Autoignition Temperature: Not Applicable.
Flammability: Not Applicable.

Unusual Fire, Explosion and Reactivity Hazards

During a fire, irritating and possibly toxic gases may be generated by thermal decomposition or combustion.

In Case of Fire

Use dry chemical, foam or CO2 extinguishing media. Wear full protective clothing and self-contained breathing apparatus. Evacuate nonessential personnel from the area to prevent human exposure to fire, smoke, fumes or products of combustion. Prevent use of contaminated buildings, area, and equipment until decontaminated. Water runoff can cause environmental damage. If water is used to fight fire, dike and collect runoff.

6. ACCIDENTAL RELEASE MEASURES

Control the spill at its source. Contain the spill to prevent from spreading or contaminating soil or from entering sewage and drainage systems or any body of water. Clean up spills immediately, observing precautions outlined in Section 8. Sweep up material and place in a compatible disposal container. Scrub area with hard water detergent (e.g. commercial products such as Tide, Joy, Spic and Span). Pick up wash liquid with additional absorbent and place into compatible disposal container. Once all material is cleaned up and placed in a disposal container, seal container and arrange for disposition.

7. HANDLING AND STORAGE

In Case of Spill or Leak

Store the material in a well-ventilated, secure area out of reach of children and domestic animals. Do not store food, beverages or tobacco products in the storage area. Prevent eating, drinking, tobacco use, and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

THE FOLLOWING RECOMMENDATIONS FOR EXPOSURE CONTROLS/PERSONAL PROTECTION ARE INTENDED FOR THE MANUFACTURE, FORMULATION, PACKAGING AND

USE OF THIS PRODUCT. FOR COMMERCIAL APPLICATIONS AND/OR ON-FARM APPLICATIONS CONSULT THE PRODUCT LABEL.

- Ingestion:** Prevent eating, drinking, tobacco usage and cosmetic application in areas where there is a potential for exposure to the material. Wash thoroughly with soap and water after handling.
- Eye Contact:** Where eye contact is likely, use chemical splash goggles. Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower.
- Skin Contact:** Where contact is likely, wear chemical-resistant (such as nitrile or butyl) gloves, coveralls, socks and chemical-resistant footwear. For overhead exposure, wear chemical-resistant headgear. Stringent housekeeping measures are necessary to prevent translocation of the material from contaminated work surfaces to uncontaminated surfaces (railings, doors, etc.). Unprotected contact with such translocated material can result in paresthesia effects (see Section 11).
- Inhalation:** Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below exposure limits. A NIOSH-certified combination air-purifying respirator with an N, P or R 95 or HE class filter and an organic vapor cartridge may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Protection provided by air-purifying respirators is limited. Use a pressure demand atmosphere-supplying respirator if there is any potential for uncontrolled release, exposure levels are not known, or under any other circumstances where air-purifying respirators may not provide adequate protection.

Avoid breathing air from drum headspace. Hydrogen cyanide gas may be released during opening and dispensing, and in case of spills. Use local exhaust ventilation or air-supplied respiratory protection to keep exposures below the TLV Ceiling Limit.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Off-white powder
Odor:	Slightly aromatic
Melting Point:	Not Available
Boiling Point:	Not Available
Specific Gravity/Density	Not Available
pH:	
Solubility in H ₂ O:	Cypermethrin technical: 0.004 mg/l (ph7)
Vapor Pressure:	Cypermethrin technical: 4 mmHg @ 68°F (20°C)

10. STABILITY AND REACTIVITY

Stability:	Stable under normal use and storage conditions.
Hazardous Polymerization:	Will not occur.
Conditions to Avoid:	None known.
Materials to Avoid:	Oxidizing agents.
Hazardous Decomposition Products:	Hydrogen cyanide gas may develop in the headspace of containers at normal storage temperatures. Can decompose at high temperatures forming toxic gases, including hydrogen cyanide.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY:	Oral LD50 (rat) - 1,800 mg/Kg
	Dermal LD50 (rat) - 2,000 mg/Kg
	Inhalation LC50 (rat) - Not available

Eye Irritation (rabbit) - Moderately irritating
Skin Irritation (rabbit) - Not Available
Sensitization (guinea pig) - Skin sensitizer in animal tests.

12. ECOLOGICAL INFORMATION

Highly toxic to fish and invertebrates. Practically non-toxic to birds and bees.

No data available for the formulation. The information presented here is for the active ingredient, cypermethrin. A thorough review of environmental information is not possible in this document. Not persistent in soil or water. Immobile in soil. Sinks in water (after 24 h).

13. DISPOSAL CONSIDERATIONS

Do not reuse product containers. Dispose of product containers, waste containers, and residues according to local, state, and federal health and environmental regulations.

Characteristic Waste: Not Applicable

Listed Waste: Not Applicable

14. TRANSPORT INFORMATION

DOT Classification: Not regulated by DOT.

B/L Freight Classification: Insecticides, NOIBN, o/t poison

15. REGULATORY INFORMATION

EPCRA SARA Title III Classification

Section 311/312 Hazard Classes: Acute Health Hazard
Chronic Health Hazard

Section 313 Toxic Chemicals: Not applicable

California Proposition 65

Not applicable

CERCLA/SARA 302 Reportable Quantity (RQ)

None

RCRA Hazardous Waste Classification (40 CFR 261)

Not applicable

TSCA Status

Exempt from TSCA, subject to FIFRA

16. OTHER INFORMATION

NFPA Hazard Ratings

Health: 2

Flammability: 1

Instability: 0

HMIS Hazard Ratings

Health: 2

Flammability: 1

Reactivity: 0

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein.