

Material Safety Data Sheet

Section 1 – Product Identification

Product Name: Samurai II C.S. EPA Registration #: 83222-23

Manufacturer: J. Oliver Products, LLC EPA Establishment #: 53883-TX-002
 3187 Robertson Gin Rd.
 Hernando, MS 38632
 662-429-7621

Section 2 – Chemical Composition

Material	CAS #	% by Weight	OSHA PEL/ACGIH TLV
Lambda Cyhalothrin	91465-08-6	23.60%	None Established
Inert Ingredients	N/A	76.40%	None Established

Section 3 – Hazard Identification

Symptoms of Toxicity: Lambda Cyhalothrin is a neurotoxin. May produce neurotoxic symptoms including staggering gait, muscle tremors and convulsions.

Flammability: Non flammable.

Reactivity: Stable under normal conditions.

Carcinogenicity: No evidence of carcinogenicity in long term animal studies.

Section 4 – First Aid

Eye Contact: Flush eyes with water for 15 minutes. Seek medical attention if irritation persists.

Inhalation: Move person to fresh air. If person is not breathing, give artificial respiration. Call a poison control center for further treatment advice.

Ingestion: Call poison control center immediately for treatment advice. Do not induce vomiting unless directed to do so by a poison control center. Do not give anything by mouth to an unconscious person.

Dermal Contact: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center for treatment advice if irritation persists.

Notes/Physician's Information: Solvent presents aspiration hazard. Gastric lavage is indicated if material was taken internally. You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.

Section 5 – Fire and Explosion Hazards

Flash Point:	Not flammable	Upper Flammability Limit:	N/A
Extinguishing Media:	Foam, dry chemical, CO ₂ , water fog	Lower Flammability Limit:	N/A
Special Procedures:	Use SCBA with full-face piece and protective clothing.		
Unusual Fire Hazards:	Possible toxic smoke, vapors, fallout and runoff water can result from fires.		
Reactivity/Stability:	Toxic and irritating gasses may form when burned. Hazardous polymerization will not occur.		

Section 6 – Spill/Release Procedures

Absorbent:	Universal or oil-only absorbent pads, vermiculite, sawdust, absorbent booms, or clay granules.
Containment:	Do not allow spills to discharge into municipal wastewater or public storm drains. Eliminate runoff as much as possible.
Waste Disposal:	Dispose of contaminated material in municipal land fill or through licensed TSDF. Not a hazardous waste under RCRA, 40 CFR 261.
Reporting:	Report all major spills and uncontrolled releases to proper local, state, and federal agencies.
Emergency Contact #:	Chemtrec: 1-800-424-9300

Section 7 – Storage and Handling Instructions

Storage Conditions:	Do not store near foodstuffs or feed. Store in a cool, dry, well-ventilated area away from flammable materials and sources of heat. Keep away from oxidizing agents.
Special Handling Considerations:	Exercise caution to prevent damage to or leakage from the container. Workers should follow good hygiene practices to avoid accidental contact with pesticides.
Container Disposal:	Do not reuse empty containers. Triple rinse (or equivalent), then offer for recycling or render unusable and dispose of in municipal landfill or with licensed TSDF.

Section 8 – Protective Equipment/Engineering Controls

Eye Protection:	None required. ANSI approved chemical goggles or safety glasses with side shields are recommended.
Respiratory Protection:	None required. Use NIOSH approved or equivalent respirator if airborne concentrations exceed workplace exposure limits.
Dermal Protection:	Chemical resistant gloves, long sleeves, pants and shoes.
Engineering Controls:	Use only in adequately ventilated areas. A supply of clean potable water should be available to allow cleaning in the event of chemical contact.

Section 9 – Physical Data

Odor:	Mild aromatic.	Melting Point:	N/A
Physical State:	Viscous liquid.	Flash Point:	Will not flash.
Color:	White, eggshell.	Specific Gravity:	1.08 g/cm ³
Bulk Density:	9.18 lbs/gal	pH:	5.4
Vapor Pressure:	N/A	Water Solubility:	Disperses in water.
Viscosity:	Dynamic. Approx 230 mPa at 20°C.	Refractive Index:	N/A

Section 10 – Toxicity

EPA Toxicity Category:	Class II. “Warning” label required	Oral LD ₅₀ :	57 mg/kg
Skin Contact:	Irritating, sensitizer.	Dermal LD ₅₀ :	> 5000 mg/kg
Eye Contact:	Irritating, sensitizer.	Inhalation LC ₅₀ :	2.11 mg/liter (4 hour exposure)
NFPA Classification:	Fire - 0 Health - 2	Reactivity - 0 Special - None	
Other Comments:	Avoid cross contamination. Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking.		

Section 11 – Ecological Data

Aquatic:	Lambda cyhalothrin: 0.36 ug/liter
Avian:	Lambda cyhalothrin: 3950 mg/kg
Bioaccumulation:	Lambda cyhalothrin degrades rapidly in soil, and is unlikely to bioaccumulate due to high toxicity.
Summary:	Lambda cyhalothrin is highly toxic to aquatic organisms. Do not apply to natural waters or inter-tidal zones.

Section 12 – Transportation

DOT:	Bottle ≤ 4 liters: ORM-D, consumer commodity Bottle > 4 liters: UN3352, pyrethroid pesticide, liquid, toxic (lambda cyhalothrin), Class 6, PG III
IATA:	UN3352, pyrethroid pesticide, liquid, toxic (lambda cyhalothrin), Class 6, PG III
IMDG:	UN3352, pyrethroid pesticide, liquid, toxic (lambda cyhalothrin), Class 6, PG III, marine pollutant

Section 13 – Regulatory

Section 302/TPQ: (emergency planning)	Contains no components listed under section 302.
Section 304/EHS RQ: (release notification)	Contains no components listed under section 304.
CERCLA RQ: (release notification)	Not regulated under CERCLA.
Section 311/Tier II: (MSDS submission)	Health hazard: Acute
Section 313/TRI Chemicals:	None
RCRA Haz-Waste Code(s):	None
CAA TQ: (air emissions)	None

Section 14 – Other

NFPA and HMIS ratings assigned to this product are based on the hazards of its ingredient (s). Because the customer is most aware of the application of the product, he must ensure that the proper personal protective equipment (PPE) is provided consistent with information contained in the product MSDS.

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