

MATERIAL SAFETY DATA SHEET

Control Solutions, Inc.

5903 Genoa-Red Bluff

Phone (M-F, 8:00 a.m. – 5:00 p.m.): 281-892-2500

Poison Control Center: 800-222-1222

Chemtrec: (800) 424-9300

Issue Date: 11-28-06

Section 1 Name & Hazard Summary

Material name: Surrender[®] brand PESTABS[®] INSECTICIDE

Hazard summary (as defined by OSHA Hazard Comm. Std., 29 CFR 1910.1200):

Physical hazards:
None.

Health hazards:
Irritant. (Eye, skin, respiratory passages, skin sensitizer).

Read the entire MSDS for a more thorough evaluation of the hazards.

Section 2

INGREDIENTS	%	ACGIH TLV
Lambda-cyhalothrin (PP321 Technical) (CAS 91465-08-6)	10.0	Not listed
Other ingredients	90.0	
Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.		

Section 3 PHYSICAL DATA

Appearance and odor: Solid light beige colored tablet

Melting point: No data

Vapor pressure (mm Hg at 20°C): Not applicable

Vapor density (air = 1): Not applicable

Solubility in water: Tablet is dissolvable in water

pH: 5.9 for a 1% w/w dilution in deionized water

Specific gravity: Not applicable (Tablet does have a bulk density of 0.55 g/cm³)

% Volatile by volume: Not applicable

Section 4 FIRE AND EXPLOSION HAZARD DATA

Flash point: Not applicable

Autoignition temperature: No data

Flammable limits (STP): Not applicable

Extinguishing media:

Water fog, foam, carbon dioxide, dry chemical, halogenated agents.

Special fire fighting protective equipment:

Self-contained breathing apparatus with full facepiece and protective clothing.

Unusual fire and explosion hazards:

Possible toxic smoke, vapors, fallout and runoff water can result from fires depending on extent of combustion and presence of other combustible materials. Contaminated buildings, areas, and equipment must be properly decontaminated before reuse.

Section 5 REACTIVITY DATA

Stability:

Stable under normal conditions.

Incompatibility:

Oxidizing agents, alkalies, calcium hypochlorite.

Hazardous decomposition products:

Combustion products: Carbon dioxide, carbon monoxide. Nitrogen oxides, ammonia, cyanuric acid, biuret. Halogen, halogen acids, possible trace amounts of carbonyl halide.

Hazardous polymerization:

Will not occur.

Section 6 HEALTH HAZARD ASSESSMENT

General:

Toxicity data are available on this specific product; this health hazard assessment is based on the results of screening tests.

Ingestion:

The acute oral toxicity in rat is greater than 300 mg/kg. This material is classified as "moderately toxic" by ingestion.

Eye contact:

A 2% v/v spray strength dilution was tested using three rabbits. No corneal or iridial effects. Slight irritation may occur following exposure to this material.

Skin Contact:

This material is mildly irritating in rabbit dermal irritation studies. Short contact periods with human skin will probably not produce irritation. Irritation can develop following repeated and/or prolonged contact with human skin. This material was a skin sensitizer in animal testing. Skin sensitization and irritation may develop after repeated and/or prolonged contact with human skin.

Exposure to Lambdacyhalothrin may cause a skin sensation called paresthesia, which is usually described as tingling, itching, burning, prickling, glowing, flushing, numbness or a chapped feeling. Symptoms usually occur around the mouth and eyes but may involve the arms or hands. Symptoms may develop shortly after exposure or can be delayed up to four hours and can persist between 2 and 30 hours following contact. There is no evidence of any long-term or cumulative effects on the skin. The effect may result from transferring the material to the face from contaminated gloves and hands.

Skin absorption:

The acute dermal toxicity is >2000 mg/kg for this material. Systemically toxic concentrations of this product will not be absorbed through human skin.

Inhalation:

The inhalation toxicity in rat is >2.20 mg/l. Particulates of this material will probably irritate respiratory passages.

Other effects of overexposure:

Studies using laboratory animals exposed to high levels of the active ingredient lambdacyhalothrin have shown that lambdacyhalothrin may induce neurotoxic effects such as staggering gait, muscle tremors and convulsions.

Prolonged exposure to high atmospheric concentrations of respirable dust of amorphous silica may cause non-progressive fibrosis of the lungs. Persons with skin, eye, respiratory or kidney disorders may be at increased risk from exposure to a component of this material.

First aid procedures:

FIRST AID	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact the Poison Control Center 800-222-1222.	
If swallowed	<ul style="list-style-type: none">• Call 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 directed to do so by a poison control center or doctor.• Do not give anything by mouth to an unconscious person.
If on skin or clothing	<ul style="list-style-type: none">• 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.
If inhaled	<ul style="list-style-type: none">• Move person to fresh air.• If person is not breathing, give artificial respiration, preferably mouth to mouth if possible.• Call a poison control center or doctor for further treatment advice.
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 eye.• Call a poison control center or doctor for treatment advice.

Section 7 SPILL OR LEAK PROCEDURES

Steps to be taken in case material is released or spilled:

This material is harmful to aquatic organisms. Releases to natural waters should be reported to appropriate water pollution control authorities. Releases of untreated effluent to the sewer should be immediately reported to the public treatment works.

Make sure all personnel involved in the spill cleanup follow good industrial hygiene practices. A small spill can be handled routinely. Use adequate ventilation to prevent inhalation. Wear suitable protective clothing and eye protection to prevent skin and eye contact. Use the following procedures:

- A. Raw pre-tablet powdered material during manufacturing process is released or spilled.
- B. Raw pre-tablet powdered material during transportation is released or spilled.
 - 1. Do not allow material to enter streams, sewers or other waterways.
 - 2. Sweep up or vacuum spilled material being careful not to create dust, and shovel into an open drum.
 - 3. Generously cover the contaminated areas with common, household detergent (e.g. TIDE, registered trademark Proctor & Gamble Company). Using a stiff

brush and small amounts of water, work the detergent into the remaining material forming a slurry. Brush the slurry into cracks and crevices and allow to stand for 2-3 minutes. Be careful to completely avoid skin or eye contact. Do not splatter on oneself or bystanders.

4. Spread absorbent on the slurry liquid and shovel mixture into the open drum.
5. Repeat #3 and 4 if necessary.
6. Rinse with a small amount of water and use absorbent to collect the wash solution. Shovel into the open drum.
7. Seal drum and dispose of contaminated material in a facility permitted for hazardous waste. Large spills should be handled according to a spill plan. Otherwise, in case of emergency call, day or night, 800-424-9300, Chemtrec.

For accidental releases or spills of Surrender brand Pestabs Insecticide end-use water dilutions, follow procedures described above except for Step 2.

Disposal method:

This material is toxic to fish. Do not contaminate waterways by cleaning of equipment or by disposal of wastes. Untreated effluent should not be discharged where it will drain into lakes, streams, or ponds. Discarded product is not a hazardous waste under RCRA, 40 CFR 261.

Container disposal:

Pre-tabletting Material:

Empty container retains product residue. Observe all hazard precautions. Do not distribute, make available, furnish or reuse empty container except for storage and shipment of original product. Remove all product residue from container and puncture or otherwise destroy empty container before disposal.

Surrender brand Pestabs Insecticide:

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Do not use empty container.

STORAGE: Mix only as needed. Do not store diluted material. Do not store near food or feed. Keep tablets in original package and store in a cool, dry area.

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: After tablet is removed, dispose of packaging in trash or by incineration.

Section 8 SPECIAL PROTECTION INFORMATION

TLV® or suggested control value:

No ACGIH TLV or OSHA PEL is assigned to this mixture. Control of exposure to below the PEL for the ingredients (see Section 2) may not be sufficient. Minimize exposure in accordance with good hygiene practice. The manufacturer of the solvent recommends an exposure limit of 50 ppm as an 8-hr TWA.

Ventilation:

Manufacturing: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines.

End Use: Generally not required when treatment dilution is used but local exhaust or ventilation may be used if necessary.

Respiratory protection: Not normally needed for this product when tablet is diluted in water for end-use application. When needed, use MSHA/NIOSH approved respirator for pesticides.

Protective clothing:

This product is FIFRA regulated. Refer to product labeling for required end-user personal protection equipment. Skin contact should be prevented through the use of impervious gloves, long-sleeved shirts and long pants. Remove contaminated clothing and wash before re-wearing. Wash separately from other laundry.

Eye protection:

Eye contact with the material should be avoided through the use of chemical safety glasses, goggles or a faceshield, selected in regard to exposure potential.

Other protective equipment:

An adequate supply of clean potable water should be available to allow thorough flushing of skin and eyes in event of contact with this compound.

Section 9 SPECIAL PRECAUTIONS OR OTHER COMMENTS

Special precautions or other comments:

Prevent skin and eye contact. Observe OSHA PEL limitations. Avoid breathing particulates. A sensitized individual should not be exposed to the product which caused the sensitization. Do not store near feed, food, or within the reach of children. Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and sources of heat or flame. Exercise due caution to prevent damage to or leakage from the container. Workers must follow good hygiene practices to avoid accidental ingestion.

Section 10 REGULATORY INFORMATION

TSCA (Toxic Substances Control Act) Regulations, 40CFR 710:
This product is a pesticide and is exempt from TSCA regulation.

CERLA and SARA Regulations (40 CFR 355, 370, and 372):
This product does not contain any chemicals subject to the reporting requirements of SARA Section 313.

Other Determined Regulations:
EPA Reg. No.: 53883-70

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

NFPA	HMIS
1 Health	2 Health
0 Flammability	0 Flammability
0 Reactivity	0 Reactivity
Special Hazards	PPE ¹
*This information is intended solely for the use of individuals trained in the particular hazard rating system. ¹ See appropriate MSDA section	

Section 11 TRANSPORTATION INFORMATION

Transport Information

DOT Classification for Ground Transport (Domestic)
Consumer Commodity ORM-D

Transport by air (IATA)

Proper shipping name: Consumer Commodity, (Lambda-Cyhalothrin), 9, UN-8000,
Packing Authorization: 910

Transport by water (IMDG)

Proper Shipping Name: Pyrethroid pesticide, solid, toxic (Lambda-Cyhalothrin), Marine
Pollutant
Hazard Class or Division: Class 6.1
Identification Number: UN3349
Packing Group: PG III
IMDG EMS #: F-A, S-A

The information herein is given in good faith but no warranty, expressed or implied, is made.