SECTION 1: IDENTIFICATION

Product Name: Cyzmic CS
EPA Registration No.: 53883-261
Recommended Use: Insecticide; See product label for a complete list of uses and use sites.
Restrictions on Use: See product label for any restrictions on the use of this product.
Chemical Family: Pyrethroid
Chemical Name of Active Ingredient(s): Lambda-cyhalothrin
Manufactured for: Control Solutions, Inc.
5903 Genoa-Red Bluff
Pasadena, TX 77507

FOR FIRE, SPILL, AND/OR LEAK EMERGENCIES CONTACT: CHEMTREC 1-800-424-9300
FOR MEDICAL EMERGENCIES AND HEALTH AND SAFETY INQUIRIES CONTACT: Safety Call 1-866-897-8050

SECTION 2: HAZARD(S) IDENTIFICATION

EMERGENCY OVERVIEW: White liquid with aromatic odor. Harmful if swallowed or inhaled. Causes skin irritation. May cause paresthesia.

OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Substance</th>
<th>Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute Oral Toxicity</td>
<td>Category 4</td>
</tr>
<tr>
<td>Acute Inhalation Toxicity</td>
<td>Category 4</td>
</tr>
<tr>
<td>Skin Corrosion/Irritation</td>
<td>Category 2</td>
</tr>
<tr>
<td>Skin Sensitization</td>
<td>Category 1</td>
</tr>
</tbody>
</table>

Signal Word: WARNING

Hazard Statement(s): Harmful if swallowed.
Harmful if inhaled.
Causes skin irritation.
May cause allergic skin reaction.

Precautionary Statement(s):

Prevention: Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Avoid breathing mist/vapors/spray.
Use only outdoors or in a well-ventilated area.
Wear protective gloves.
Contaminated work clothing must not be allowed out of the workplace.

Response:

IF SWALLOWED: Call a poison center/doctor if you feel unwell. Rinse mouth.

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a poison center/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of soap and water. Specific treatment (see first aid section). If skin irritation occurs: Get medical advice/attention.
Take off contaminated clothing and wash it before reuse. If skin irritation or rash occurs: Get medical advice/attention. Wash contaminated clothing before reuse.

Storage: No statement required. See Section 7 for storage information.
Disposal: Dispose of contents/container in accordance with Federal, state and local regulations.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lambda-cyhalothrin</td>
<td>91465-08-6</td>
<td>9.7%</td>
</tr>
<tr>
<td>Propylene glycol</td>
<td>57-55-6</td>
<td>15.0 - 20.0%</td>
</tr>
<tr>
<td>Solvent naphtha (petroleum) light aromatic</td>
<td>64742-95-6</td>
<td>5.0 – 10.0%</td>
</tr>
</tbody>
</table>

*Ingredients not listed or listed with a weight % range are considered a trade secret and are withheld under 29 CFR 1910.1200(i).

SECTION 4: FIRST AID MEASURES

IF IN EYES: Hold eye 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 treatment advice.

IF ON SKIN: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 to 20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person 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.

IF INGESTED: 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/effects, acute and delayed: Gastric upset. Skin irritation. Lambda-cyhalothrin is known to cause paresthesia.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, alcohol-resistant foam, dry chemical or carbon dioxide
Unsuitable Extinguishing Media: Water jet as it may spread fire.
Hazardous Combustion Products: Thermal decomposition may produce toxic carbon and nitrogen oxides, ammonia, cyanuric acid, biuret, halogen, halogen acids, and trace amounts of carbonyl halide.

Special Protective Equipment & Precautions: Evacuate area and fight fire upwind from a safe distance to avoid hazardous vapors and decomposition products. Foam and/or dry chemical are preferred to minimize environmental contamination. If water is used, dike and collect water to prevent run-off. Wear self-contained breathing apparatus and full fire-fighting turn-out gear (Bunker gear).

Unusual Fire & Explosion Hazards: None known
SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions: See Section 8 for personal protection equipment.

Environmental Precautions: Keep spilled material and any rinsate from contaminating soil or from entering sewage and drainage systems and bodies of water.

Methods for Containment: Isolate the spill area. Keep unnecessary and unprotected personnel from entering. Absorb small spills with sand, vermiculite or other inert absorbent. Dike large spills using absorbent or impervious material such as clay or sand. Recover and contain as much free liquid as possible for reuse. Allow absorbed material to solidify and scrape up for disposal.

Methods for Clean-up: Place contaminated material in appropriate container for disposal. After removal, flush contaminated area thoroughly with soap and water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container. Clean area carefully as product is oil based and may cause a slipping hazard.

Other Information: None known

SECTION 7: HANDLING AND STORAGE

Handling: RECOMMENDATIONS ARE INTENDED FOR MANUFACTURING, PACKAGING AND COMMERCIAL BLENDING WORKERS. PESTICIDE APPLICATORS AND WORKERS must refer to the product label and Directions for Use attached to the product for Agricultural Use Requirements in accordance with the EPA Worker Protection Standard 40 CFR part 170. Handle and open container in a manner as to prevent spillage. Do not eat, drink or smoke while handling this product. Immediately wash off accidental splashes of the concentrate or spray mixture from skin, clothing and out of eyes.

Storage: See pesticide label for full information on product storage. Do not contaminate water, food or feed by storage of this product. Store away from sources of heat, out of direct sunlight and away from incompatible materials. Pesticides should be stored in secured areas away from children and animals.

Storage Temperature (Min/Max): Store at room temperature and avoid extreme temperatures.

Product Incompatibilities: Avoid contact with strong oxidizers.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

Users of a pesticide product must refer to the product label for personal protective equipment requirements.

Exposure Guidelines:

<table>
<thead>
<tr>
<th>COMPONENT</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
<th>NIOSH REL</th>
</tr>
</thead>
<tbody>
<tr>
<td>No components listed</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Engineering Controls: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs or other specified exposure limits. Local exhaust ventilation is preferred.

Respiratory Protection: In areas of poor ventilation, use a NIOSH approved respirator with cartridges/canisters approved for pesticides.
SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>White viscous liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild odor</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH</td>
<td>6.0 – 6.5</td>
</tr>
<tr>
<td>Melting /Freezing Point</td>
<td>Not determined</td>
</tr>
<tr>
<td>Boiling Point/Range</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flash Point</td>
<td>Will not flash</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not determined</td>
</tr>
<tr>
<td>Flammability</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper/Lower Flammability Limits</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>Not determined</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not determined</td>
</tr>
<tr>
<td>Relative Density (@24°C)</td>
<td>1.05 (typical)</td>
</tr>
<tr>
<td>Solubility (water)</td>
<td>Disperses</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not determined</td>
</tr>
<tr>
<td>Auto-ignition Temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>Not determined</td>
</tr>
<tr>
<td>Viscosity</td>
<td>Not available</td>
</tr>
</tbody>
</table>

SECTION 10: STABILITY AND REACTIVITY

- Reactivity: No hazardous chemical reactions known.
- Chemical Stability: Stable under normal storage and handling conditions.
- Possibility of Hazardous Reactions: No potential for hazardous reactions known.
- Conditions to Avoid: Excessive heat, sources of ignition
- Incompatible Materials: Strong oxidizers
- Hazardous Decomposition Products: Thermal decomposition may produce toxic carbon and nitrogen oxides, ammonia, cyanuric acid, biuret, halogen, halogen acids, and trace amounts of carbonyl halide.

SECTION 11: TOXICOLOGICAL INFORMATION

- Likely Routes of Exposure: Eye contact, Skin contact, Inhalation, Ingestion
- Symptoms of Exposure: Lambda-cyhalothrin is known to cause paresthesia. Gastric upset. Skin irritation.
- Oral LD$_{50}$: 550 mg/kg (rat)
- Dermal LD$_{50}$: >5,000 mg/kg (rat)
- Inhalation LC$_{50}$: >2.04 mg/L (4-hr)(rat)
- Eye Irritation/Damage: No positive effects after 48 hours (rabbit)
- Skin Corrosion/Irritation: Irritation cleared by day 10 (rabbit)
- Skin Sensitization: Positive for contact sensitization (guinea pig)
- Chronic/Subchronic Toxicity: No data available
- Mutagenicity: No data available
Reproductive Toxicity: No data available
Neurotoxicity: No data available
Target Organs: No data available
Aspiration Hazard: Not anticipated to be an aspiration hazard.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>No components listed</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

SECTION 12: ECOLOGICAL INFORMATION

Environmental Hazards Statement from FIFRA Regulated Pesticide Label:
This product is extremely toxic to fish. To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid runoff to water bodies or drainage systems. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Apply this product only as specified on this label. When making applications, care should be used to avoid household pets, particularly fish and reptile pets.

This product is highly toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees are visiting the treatment area.

ECOTOXICITY DATA: The data presented below is on technical lambda-cyhalothrin.
Fish Toxicity: Rainbow trout: 96 hr LC50 <0.24 µ/L
Aquatic Invertebrate Toxicity: *Daphnia magna*: 48 hr EC50 <0.001 µ/L
Aquatic Plant Toxicity: No data available
Avian Toxicity: No data available
Honeybee Toxicity: No data available

ENVIRONMENTAL EFFECTS:
Persistence and Degradability: No data available
Bioaccumulation: No data available
Mobility: No data available
Other Adverse Effects: No data available

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Refer to the pesticide label for full information on disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of Federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Container Disposal: Refer to the pesticide label for full information on disposal. When possible, triple rinse the container and offer for recycling if available.

RCRA Characteristics: It is the responsibility of the individual disposing of this product to determine the RCRA classification and hazard status of the waste.
SECTION 14: TRANSPORTATION INFORMATION

DOT (Ground): Not regulated
IMDG (Sea): UN3082, Environmentally hazardous substance, liquid, n.o.s. (Lambda-cyhalothrin), 9, PGIII
IATA (Air): UN3082, Environmentally hazardous substance, liquid, n.o.s. (Lambda-cyhalothrin), 9, PGIII

SECTION 15: REGULATORY INFORMATION

Labeling Requirements Under FIFRA: 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 swallowed. Avoid contact with skin, eyes or clothing. Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco, or using the toilet.

TSCA Inventory: This product is exempt from TSCA inventory listing requirements as it is solely for FIFRA regulated use.

SARA Title III Information:
Section 302 – Extremely hazardous substances: None
Section 311/312 – Hazard Categories: Immediate (Acute), Delayed (Chronic)
Section 313 – This product contains a chemical or chemicals which are subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
<tr>
<td>None listed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CERCLA – This product contains the following chemicals which have a reportable quantity (RQ) under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA):

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>RQ</th>
<th>Quantity of Finished Product</th>
</tr>
</thead>
<tbody>
<tr>
<td>None listed</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

CALIFORNIA PROPOSITION 65:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS Number</th>
<th>Prop 65 Category(ies)</th>
</tr>
</thead>
<tbody>
<tr>
<td>None listed</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

U.S. STATE RIGHT-TO-KNOW REGULATIONS:

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>New Jersey</th>
<th>Massachusetts</th>
<th>Pennsylvania</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propylene glycol</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Lambda-cyhalothrin</td>
<td>X</td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>
**SECTION 16: OTHER INFORMATION**

<table>
<thead>
<tr>
<th>NFPA</th>
<th>Health Hazards</th>
<th>Flammability</th>
<th>Instability</th>
<th>Special Hazards</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

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