SECTION 1: IDENTIFICATION

Product Name: Lice Ban
EPA Registration No.: 53883-441
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: N/A - Mixture
Chemical Name of Active Ingredient(s): Permethrin
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: Opaque white liquid with a mild chemical odor.
OSHA HCS CLASSIFICATION (29 CFR 1910.1200)

<table>
<thead>
<tr>
<th>Hazard(s)</th>
<th>Category</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aspiration Hazard</td>
<td>1</td>
</tr>
</tbody>
</table>

Signal Word: DANGER

Hazard Statement(s): May be fatal if swallowed and enters airways.

Precautionary Statement(s): Prevention: No statements required. See Section 8 for personal protective equipment.
Response: IF SWALLOWED: Immediately call a poison center/doctor. Do NOT induce vomiting.
Storage: Store locked up.
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>Permethrin</td>
<td>52645-53-1</td>
<td>5.0%</td>
</tr>
<tr>
<td>Diflubenzuron</td>
<td>35367-38-5</td>
<td>3.0%</td>
</tr>
<tr>
<td>Distillates, petroleum, hydrotreated light</td>
<td>64742-47-8</td>
<td>85.0 – 90.0%</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: None known

NOTE TO PHYSICIAN: May pose an aspiration pneumonia hazard. Contains petroleum distillate.

SECTION 5: FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Foam, dry chemical, carbon dioxide or water spray

Unsuitable Extinguishing Media: Water jet

Hazardous Combustion Products: Thermal decomposition may produce toxic carbon and nitrogen oxides, hydrogen fluoride and hydrogen chloride gas.

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 water. Pick up wash liquid with additional absorbent and place in a disposable container. Do not put spilled material back in the original container.

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):  Not determined
Product Incompatibilities:  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 oils and pesticides.

Eye Protection:  Chemical goggles or safety glasses and full-face shield.

Protective Gloves:  Chemical-resistant gloves such as barrier laminate, butyl rubber, nitrile, neoprene rubber, polyvinyl chloride (PVC) or Viton.

Other Protective Clothing:  Long-sleeved shirt, long pants and shoes plus socks.

General Safety Measures:  Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet. Remove clothing immediately after handling this product. Wash outside of gloves before removing. Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product’s concentrate. Do not reuse them. Follow manufacturer’s instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
**SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Opaque, white liquid</td>
</tr>
<tr>
<td>Odor</td>
<td>Mild chemical</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not determined</td>
</tr>
<tr>
<td>pH (1% dispersion)</td>
<td>Not determined</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>&gt;230°F (&gt;110°C)</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>0.858 (typical)</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble</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>411.5 cps @ 20°C</td>
</tr>
<tr>
<td></td>
<td>342.2 cps @ 40°C</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, hydrogen fluoride and hydrogen chloride gas.

**SECTION 11: TOXICOLOGICAL INFORMATION**

- **Likely Routes of Exposure:** Eye contact, Skin contact, Inhalation, Ingestion
- **Symptoms of Exposure:** Cutaneous sensations may occur, such as burning or stinging on the face and mucosae due to the permethrin. However, these sensations cause no lesions and are of a transitory nature (max. 24 hours).
- **Oral LD$_{50}$:** >5,000 mg/kg (rat) (Based upon a similar composition)
- **Dermal LD$_{50}$:** >5,000 mg/kg (rat) (Based upon a similar composition)
- **Inhalation LC$_{50}$:** >5.08 mg/L (4-hour) (rat) (Based upon a similar composition)
- **Eye Irritation/Damage:** Mildly irritating (Based upon a similar composition)
- **Skin Corrosion/Irritation:** Slightly irritating (Based upon a similar composition)
- **Skin Sensitization:** Not a skin sensitizer (Based upon a similar composition)
- **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:** Anticipated to be an aspiration hazard
- **Carcinogenicity:** See below.

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH</th>
<th>IARC</th>
<th>NTP</th>
<th>OSHA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin</td>
<td></td>
<td>3</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
SECTION 12: ECOLOGICAL INFORMATION

Environmental Hazards Statement from FIFRA Regulated Pesticide Label:
This pesticide is extremely toxic to aquatic organisms, including fish and invertebrates. 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.

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

ECOTOXICITY DATA:
Fish Toxicity: Permethrin: *Poecilia reticulata* 48-hr LC$_{50}$ = 0.0076 mg/L
Diflubenzuron: *Oncorhynchus mykiss* 96-hr LC$_{50}$ = 106.4 mg/L
*Danio rerio* 96-hr LC$_{50}$ = 64.8 mg/L

Aquatic Invertebrate Toxicity: Permethrin: *Daphnia magna* 48-hr EC$_{50}$ = 37 µg/L
*Daphnia magna* 48-hr EC$_{50}$ = 0.00017 mg/L
Diflubenzuron: *Daphnia magna* 48-hr EC$_{50}$ = 0.0026 mg/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. (Permethrin), 9, PGIII, Marine Pollutant
IATA (Air): UN3082, Environmentally hazardous substance, liquid, n.o.s. (Permethrin), 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: Contains Petroleum Distillate. Wear: Long-sleeved shirt and long pants, socks, shoes, and gloves.

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: Acute (Immediate)
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>
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<th>CAS Number</th>
<th>Weight %</th>
</tr>
</thead>
<tbody>
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<tr>
<td>Diflubenzuron</td>
<td>35367-38-5</td>
<td>3.0%</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>Permethrin</td>
<td>X</td>
<td>X</td>
<td></td>
</tr>
<tr>
<td>Diflubenzuron</td>
<td>X</td>
<td>X</td>
<td></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>1</td>
<td>1</td>
<td>0</td>
<td>None</td>
</tr>
</tbody>
</table>

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**Revision Note:**