Material Safety Data Sheet

Section 1 – Product Identification

Product Name: Martin’s Permethrin 10% Multi-Purpose Concentrate
EPA Registration #: 53883-72

Manufacturer: Control Solutions Inc.
5903 Genoa- Red Bluff Pasadena, TX 77507
281-892-2500
EPA Establishment #: 53883-TX-002

Section 2 – Chemical Composition

<table>
<thead>
<tr>
<th>Material</th>
<th>CAS #</th>
<th>% by Weight</th>
<th>OSHA PEL/ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Permethrin</td>
<td>52645-53-1</td>
<td>10.0%</td>
<td>None established</td>
</tr>
<tr>
<td>Inert Ingredients</td>
<td>-</td>
<td>90.0%</td>
<td>None established</td>
</tr>
</tbody>
</table>

Section 3 – Hazard Identification

Symptoms of Toxicity: Permethrin may induce neurotoxic symptoms including diarrhea, salivation, tremors, convulsions, hyperactivity and hypersensitivity to touch or sound.

Flammability: Not flammable.

Reactivity: Stable under normal storage conditions.

Carcinogenicity: Not carcinogenic.

Section 4 – First Aid

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

Inhalation: Remove person to fresh air. Call poison control center immediately. Give artificial respiration if necessary.

Ingestion: Call poison control center immediately. Do not induce vomiting unless directed to do so by physician.

Dermal Contact: Wash promptly with plenty of soap and water. Wash contaminated clothing.

Notes/Physician’s Information: You may also contact SafetyCall® International (866) 897-8050 for emergency medical treatment information.
Section 5 – Fire and Explosion Hazards

Flash Point: Will not flash.  Upper Flammability Limit: N/A
Extinguishing Media: Water fog, CO₂, foam, dry chemical  Lower Flammability Limit: N/A
Special Procedures: Use self-contained breathing apparatus. Cool fire exposed areas and equipment.
Unusual Fire Hazards: May release irritating and toxic gases due to thermal decomposition or combustion.

Section 6 – Spill/Release Procedures

Absorbent: Universal absorbent pads, vermiculite, or clay granules.
Containment: Do not discharge into municipal wastewater or public storm drains. Eliminate runoff as much as possible.
Waste Disposal: Dispose of waste material in municipal land-fill or through licensed TSDF. Open dumping is prohibited. Not an RCRA hazardous waste.
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 feed, food, or within the reach of children. Containers should be stored in a cool, dry, well-ventilated area away from flammable materials and ignition sources.
Special Handling Considerations: Exercise caution to prevent damage to or leakage from containers.
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: Avoid contact
Respiratory Protection: None likely to be needed.
Dermal Protection: Long sleeves, pants, shoes with socks.
Engineering Controls: Use only in adequately ventilated areas.
Other Precautions: Wash thoroughly after handling. Remove and wash clothing before reuse.
Section 9 – Physical Data

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Slight characteristic</td>
</tr>
<tr>
<td>Melting Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Physical State</td>
<td>Viscous liquid</td>
</tr>
<tr>
<td>Flash Point</td>
<td>N/A</td>
</tr>
<tr>
<td>Color</td>
<td>Translucent yellow to white</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>1.0158 (g/ml)</td>
</tr>
<tr>
<td>Bulk Density</td>
<td>8.46 (lbs/gal)</td>
</tr>
<tr>
<td>pH</td>
<td>N/A</td>
</tr>
<tr>
<td>Vapor Pressure</td>
<td>N/A</td>
</tr>
<tr>
<td>Water Solubility</td>
<td>Emulsifies</td>
</tr>
<tr>
<td>Viscosity</td>
<td>N/A</td>
</tr>
<tr>
<td>Refractive Index</td>
<td>N/A</td>
</tr>
</tbody>
</table>

Section 10 – Toxicity

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>EPA Toxicity Category</td>
<td>Caution</td>
</tr>
<tr>
<td>Oral LD₅₀</td>
<td>&gt;500 mg/kg</td>
</tr>
<tr>
<td>Skin Contact</td>
<td>Slightly irritating</td>
</tr>
<tr>
<td>Dermal LD₅₀</td>
<td>&gt;1000 mg/kg</td>
</tr>
<tr>
<td>Eye Contact</td>
<td>Slightly irritating</td>
</tr>
<tr>
<td>Inhalation LC₅₀</td>
<td>&gt;10 mg/kg</td>
</tr>
<tr>
<td>HMIS/NFPA Classification</td>
<td>Fire - 0 Health - 1 Fire - 0 Health - 1 Reactivity - 0 Special - none Reactivity - 0</td>
</tr>
<tr>
<td>Other Comments</td>
<td>Avoid cross contamination.  Always wash hands thoroughly after handling pesticides and before eating, drinking, or smoking.</td>
</tr>
</tbody>
</table>

Section 11 – Ecological Data

<table>
<thead>
<tr>
<th>Environment</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic</td>
<td>Permethrin: LC₅₀ (96h) for rainbow trout: 2.5 ug/L Permethrin: LC₅₀ (96h) for Bluegill: 1.8 ug/L</td>
</tr>
<tr>
<td>Avian</td>
<td>LD₅₀ Bobwhite quail- &gt;10,000 mg/kg</td>
</tr>
<tr>
<td>Bioaccumulation</td>
<td>Does not bioaccumulate.</td>
</tr>
</tbody>
</table>

| Summary                        | This product is extremely toxic to fish. Do not apply directly to water. Drifts and runoff from treated areas may be hazardous to aquatic organisms in treated areas. |

Section 12 – Transportation

<table>
<thead>
<tr>
<th>Classification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT</td>
<td>Bulk: UN3082, Environmentally hazardous substance, liquid, n.o.s. (10% permethrin), Class 9, PG III, marine pollutant</td>
</tr>
<tr>
<td>IATA</td>
<td>Not regulated</td>
</tr>
<tr>
<td>IMDG</td>
<td>UN3082, Environmentally hazardous substance, liquid, n.o.s. (10% permethrin), Class 9, PG III, marine pollutant</td>
</tr>
<tr>
<td>Federal Motor Carrier Classification</td>
<td>Insecticide, Liquid, Other Than Agriculture N.O.I.B.N.</td>
</tr>
</tbody>
</table>
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 by CERCLA. |
| Section 311/Tier II: (MSDS submission) | Acute health hazard. |
| Section 313/TRI Chemicals: | 10.0% permethrin, CAS - 52645-53-1 |
| 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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