**Material Safety Data Sheet**


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**I Trade Name:** Repel® Tick Defense

**Product Type:** Aerosol Insect repellent

**Product Item Number:** HG-94138

**EPA Registration Number:** 121-92-305

**Manufacturer:**
- Chemsico
- Division of United Industries Corporation
- 8494 Chapin Industrial Drive
- St. Louis, MO 63114

**Formula Code Number:** 21-0865/21-0666

**Emergency Telephone Numbers**
- For Chemical Emergency: 1-800-633-2873
- For Information: 1-800-880-1181
- Prepared by: C. A. Duckworth
- Date Prepared: May 3, 2013

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**II Hazards Ingredient/Identity Information**

<table>
<thead>
<tr>
<th>Chemical</th>
<th>%</th>
<th>OSHA PEL</th>
<th>ACGIH TLV</th>
</tr>
</thead>
<tbody>
<tr>
<td>Picaridin</td>
<td>15.00</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>CAS #119515-38-7</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Ethanol</td>
<td>34.00</td>
<td>1000 ppm</td>
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<tr>
<td>CAS #64-17-5</td>
<td></td>
<td></td>
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</tr>
<tr>
<td>Isobutane</td>
<td>10.00</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>CAS #75-28-5</td>
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</tbody>
</table>

**III Physical and Chemical Characteristics**

- **Appearance & Odor:** Light mist spray with an alcohol odor
- **Boiling Point:** NA
- **Vapor Pressure:** NA
- **Specific Gravity:** 0.88 at 72º F (H2O = 1)
- **% Volatile (by vol.):** >90%
- **Solubility in Water:** NA
- **Evaporation Rate:** Approximately 1 (Butyl Acetate = 1)

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**IV Fire and Explosive Hazards Data**

- **Flash Point:** 80º F (PMCC) liquid portion
- **Flame Extension:** 12”
- **Autoignition Temperature:** N/A
- **Fire Extinguishing Media:** Carbon dioxide, Foam, Dry chemical
- **Decomposition Temperature:** NA
- **Special Fire-Fighting Procedures:** For Small Fires: Use Carbon dioxide or dry chemical extinguisher. For Large Fires: Use copious amounts of water.
- **Unusual Fire and Explosion Hazards:** Also see Section VII

**V Reactivity Data**

- **Stability:** Stable
- **Polymerization:** Will not occur
- **Conditions to Avoid:** None
- **Incompatible Materials:** May soften or damage some synthetics such as rayon. May damage leather.
- **Hazardous Decomposition or Byproducts:** None

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**VI Health Hazard Data**

- **Eye Contact:** Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using the toilet. Use of this product may cause skin reactions in rare cases. **First Aid:** Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present after the first 15 minutes then continue rinsing eye. Call a Poison Control Center or doctor for treatment advice. Have the product container or label with you when calling a Poison Control Center or doctor, or going for treatment.
- **Special Notes:**
- **Health conditions Aggravated by Exposure:** None known
- **Ingredients listed by NTP, OSHA, or IARC as Carcinogens or Potential Carcinogens:** None

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**VII Precautions for Safe Handling and Use**

- **Steps to be Taken in Case Material is Released or Spilled:** Flammable material. Remove all possible ignition sources. Soak up with absorbent material. Wash small quantities away with soapy water.
- **Waste Disposal:** Do not puncture or incinerate. If empty: Place in trash or offer for recycling. If partially filled: Call your local solid waste disposal agency for disposal instructions. Never place unused product down an indoor or outdoor drain.
- **Handling & Storage Precautions:** Contents under pressure. Keep away from heat, sparks, or open flame. Exposure to temperatures higher than 130ºF may cause bursting.

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**VIII Control Measures**

- **Read and follow label directions. They are your best guide to using this product effectively, and give necessary safety precautions to protect your health.**

**IX Transportation Data**

- **DOT:** Consumer Commodity, ORM-D, UN-1950
- **IMDG:** UN-1950, Aerosols, 2.1
- **IATA:** UN-1950, Aerosols, Flammable, 2.1