# Material Safety Data Sheet


## Hazardous Material Identification System – (HMIS)

<table>
<thead>
<tr>
<th>HEALTH</th>
<th>REACTIVITY</th>
<th>FLAMMABILITY</th>
<th>PERSONAL</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>0</td>
<td>2</td>
<td>-</td>
</tr>
</tbody>
</table>

## I Trade Name: Repel® Mosquito Stop™ Clothing & Gear Insect Repellent

### Product Type: Aerosol insect repellent

### Product Item Number: HG-32600-3A

### Formula Code Number: 21-0728

### EPA Registration Number: 305-55

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

### Emergency Telephone Numbers
- For Chemical Emergency: 1-800-633-2873
- For Information: 1-800-880-1181
- Prepared by: Charlie Duckworth
- Date Prepared: October 18, 2010

## 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>Mineral spirits</td>
<td>6.00</td>
<td>100 ppm</td>
<td>100 ppm</td>
</tr>
<tr>
<td>CAS# 8012-95-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Permethrin</td>
<td>0.50</td>
<td>NA</td>
<td>NA</td>
</tr>
<tr>
<td>CAS# 52645-53-1</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hydrocarbon Propellant Blend</td>
<td>16.7</td>
<td>NE</td>
<td>NE</td>
</tr>
<tr>
<td>CAS# 75-28-5/106-97-8/74-98-6</td>
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</table>

### Appearance & Odor: Wet narrow fan spray with clear wet film and glycol ether odor.

### Boiling Point: NA

### Melting Point: NA

### Vapor Pressure: 110 psig at 54°C/130°F

### Specific Gravity: 0.993 (H2O = 1)

### Vapor Density: Greater than 1 (Air = 1)

### PH: 7.0

### Solubility in Water: Greater than 87%

### Evaporation Rate: Less than 1 (Butyl Acetate = 1)

## III Physical and Chemical Characteristics

### Stability: Stable

### Polymerization: Will not occur

### Conditions to Avoid: Temperatures over 130°F

### Incompatible Materials: NA

### Hazardous Decomposition or Byproducts: Carbon dioxide, carbon monoxide

### Special Fire-Fighting Procedures: Keep cans cool. Use equipment or shielding to protect personnel against bursting, rupturing or venting cans.

### Unusual Fire & Explosion Hazards: At elevated temperatures (over 54°C/130°F), cans may vent, rupture or burst. Also see Section V.

## IV Fire and Explosive Hazards Data

### Flash Point: 147°F (TCC) (liquid portion)

### Flame Extension: 0-inches (Level 1 Aerosol)

### Flammable Limits: NA

### Autoignition Temperature: NA

### Extinguishing Media: Water fog, Carbon dioxide, Dry chemical

### Special Fire-Fighting Procedures: Keep cans cool. Use equipment or shielding to protect personnel against bursting, rupturing or venting cans.

### Temperature of Decomposition: NA

### Unusual Fire & Explosion Hazards: At elevated temperatures (over 54°C/130°F), cans may vent, rupture or burst. Also see Section V.

## V Reactivity Data

### Stability: Stable

### Polymerization: Will not occur

### Conditions to Avoid: Temperatures over 130°F

### Incompatible Materials: NA

### Hazardous Decomposition or Byproducts: Carbon dioxide, carbon monoxide

## VI Health Hazard Data

### Skin Contact: Avoid contact with skin and clothing. First Aid: 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.

### Eye Contact: Causes moderate eye irritation. First Aid: Hold eye open and rinse with plenty of water for 15-20 minutes. Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.

### Special Notes: Have the product container with you when calling a Poison Control Center or doctor, or going for treatment.

### Health conditions Aggravated by Exposure: None known

### Ingredients listed by NTP, OSHA, or IARC as Carcinogens or Potential Carcinogens: None

## VII Precautions for Safe Handling and Use

### Steps to be Taken in Case Material is Released or Spilled:
- Avoid breathing vapors. Avoid contact with liquid. Remove ignition sources. Soak up spills with absorbent material.

### Waste Disposal:
- Do not puncture or incinerate containers. If empty: Place in trash or offer for recycling if available. If partly filled: Call local solid waste agency for disposal instructions.

### Handling & Storage Precautions:
- Do not store where temperatures can exceed 54°C/130°F.

## 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.

### DOT: Consumer Commodity, ORM-D, UN-1950

### IMDG: UN-1950, Aerosols, 2.1

### IATA: UN-1950, Aerosols, Flammable, 2.1

## IX Transportation Data

The information and statements herein are believed to be reliable but are not to be construed as warranty or representation for which we assume legal responsibility. Users should undertake sufficient verification and testing to determine the suitability for their own particular purpose of any information or products referred to herein. NO WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE IS MADE.