

Chemsico  
 Division of United Industries Corp.  
 P.O. Box 142642, St. Louis, MO 63114-0642

**Hazardous Material Identification System-(HMIS)**

|                  |                          |
|------------------|--------------------------|
| HEALTH - 1       | REACTIVITY - 0           |
| FLAMMABILITY - 2 | PERSONAL - Rubber gloves |

# Material Safety Data Sheet

Complies with OSHA's Hazard Communication Standard, 29 CFR 1910.1200

| <b>I Trade Name:</b> Ace Flea & Tick Killer for Pet & Home  |   |   |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
|---|---|---|-----------|-----------|--------------------------|-----|---------|---------|---|------|----|----|--|-------|----|----|---|------|----|----|---|------|----|----|--|--|--|
| <b>Product Type:</b> Aerosol Insecticide  |   |   |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| <b>Product Item Number:</b> 726717ACEH02  |   | <b>Formula Code Number:</b> 21-0099   |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| <b>EPA Registration Number</b>  | <b>Manufacturer</b>   | <b>Emergency Telephone No.</b>  |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| 9688-53   | Chemsico<br>8494 Chapin Industrial Dr.<br>St. Louis, MO 63114 | For Chemical Emergency: 1-800-633-2873<br>For Information: 1-800-332-5553<br>Prepared by: H.L. Pauls<br>Date Prepared: October 28, 2004   |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| <b>II Hazardous Ingredients/Identity Information</b>  |   | <b>III Physical and Chemical Characteristics</b>  |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| <table border="1"> <thead> <tr> <th>Chemical</th> <th>%</th> <th>OSHA PEL</th> <th>ACGIH TLV</th> </tr> </thead> <tbody> <tr> <td>Heptane<br/>CAS #142-82-5</td> <td>4.0</td> <td>500 ppm</td> <td>400 ppm</td> </tr> <tr> <td>d-trans Allethrin<br/>CAS #28434-00-6/61009-26-5</td> <td>0.15</td> <td>NE</td> <td>NE</td> </tr> <tr> <td>Sumithrin<br/>(d-Phenothrin)<br/>CAS #26002-80-2</td> <td>0.096</td> <td>NA</td> <td>NE</td> </tr> <tr> <td>N-octyl bicycloheptene dicarboximide<br/>CAS #113-48-4</td> <td>1.25</td> <td>NA</td> <td>NE</td> </tr> <tr> <td>Hydrocarbon PropellantBlend<br/>CAS # 75-28-5/106-97-8/74-98-6</td> <td>15.0</td> <td>NE</td> <td>NE</td> </tr> </tbody> </table>  | Chemical  | %   | OSHA PEL  | ACGIH TLV | Heptane<br>CAS #142-82-5 | 4.0 | 500 ppm | 400 ppm | d-trans Allethrin<br>CAS #28434-00-6/61009-26-5 | 0.15 | NE | NE | Sumithrin<br>(d-Phenothrin)<br>CAS #26002-80-2 | 0.096 | NA | NE | N-octyl bicycloheptene dicarboximide<br>CAS #113-48-4 | 1.25 | NA | NE | Hydrocarbon PropellantBlend<br>CAS # 75-28-5/106-97-8/74-98-6 | 15.0 | NE | NE | <b>Appearance and Odor:</b> Solid fan mist. No significant residue. Fragrance and Pyrethroid odor.<br><b>Boiling Point:</b> NA<br><b>Melting Point:</b> NA<br><b>Vapor Pressure:</b> 120 psig @ 54°C/130°F<br><b>Specific Gravity:</b> 0.97 (H <sub>2</sub> O=1)<br><b>Vapor Density:</b> greater than 1 (Air=1)<br><b>% Volatile (by vol.):</b> 96%<br><b>Solubility in Water:</b> greater than 83%<br><b>Evaporation Rate:</b> less than 1 (Butyl Acetate=1) |  |  |
| Chemical  | %   | OSHA PEL  | ACGIH TLV |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| Heptane<br>CAS #142-82-5  | 4.0   | 500 ppm   | 400 ppm   |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| d-trans Allethrin<br>CAS #28434-00-6/61009-26-5   | 0.15  | NE  | NE        |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| Sumithrin<br>(d-Phenothrin)<br>CAS #26002-80-2  | 0.096   | NA  | NE        |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| N-octyl bicycloheptene dicarboximide<br>CAS #113-48-4   | 1.25  | NA  | NE        |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| Hydrocarbon PropellantBlend<br>CAS # 75-28-5/106-97-8/74-98-6   | 15.0  | NE  | NE        |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| <b>IV Fire and Explosion Hazard Data</b>  |   | <b>V Reactivity Data</b>  |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| <b>Flash Point:</b> 145°F (TCC)<br><b>Flame Extension:</b> 0" (Level 1 Aerosol)<br><b>Flammable Limits:</b> N/A<br><b>Autoignition Temp.:</b> N/A<br><b>Fire Extinguishing Media:</b> Water Fog, Carbon Dioxide, Dry Chemical<br><b>Decomposition Temp.:</b> N/A<br><b>Special Fire-Fighting Procedures:</b> Keep containers cool. Use equipment or shielding required protecting personnel against bursting, rupturing or venting containers.<br><b>Unusual Fire and Explosion Hazards:</b> At elevated temperatures (over 54°C/130°F), containers may vent, rupture or burst. Also see Section V.   |   | <b>Stability:</b> Stable<br><b>Polymerization:</b> Will not occur<br><b>Conditions to Avoid:</b> Temperatures over 130°F<br><b>Incompatible Materials:</b> N/A<br><b>Hazardous Decomposition or Byproducts:</b> Carbon dioxide, carbon monoxide   |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| <b>VI Health Hazard Data</b>  |   | <b>VII Precautions for Safe Handling and Use</b>  |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| <b>Ingestion (Swallowing):</b> Harmful if swallowed. <b>First Aid:</b> Call a physician or Poison Control Center immediately. <b>DO NOT INDUCE VOMITING.</b> Vomiting may cause aspiration pneumonia.<br><b>Skin Contact:</b> Harmful if absorbed through skin. <b>First Aid:</b> Remove contaminated clothing and wash affected areas with soap and water.<br><b>Eye Contact:</b> Avoid contact with eyes. <b>First Aid:</b> Flush eyes with plenty of water. Call a physician if irritation persists.<br><b>Inhalation Toxicity:</b> Avoid breathing vapor and spray mist. <b>First Aid:</b> Remove victim to fresh air.<br><b>Special Notes:</b> None<br><b>Health Conditions Aggravated by Exposure:</b> None Known<br><b>Ingredients listed by NTP, OSHA or IARC as Carcinogens or potential carcinogens:</b> None |   | <b>Steps to be Taken in Case Material is Released or Spilled:</b><br>Avoid breathing vapors. Remove ignition sources. Avoid skin contact with liquid.<br><b>Waste Disposal:</b><br>Do not puncture or incinerate containers. Give empty, leaking or full containers to a facility qualified to dispose of pressurized containers.<br><b>Handling &amp; Storage Precautions:</b><br>Do not store where temperatures can exceed 54°C/130°F. |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| <b>VIII Control Measures</b>  |   | <b>IX Transportation Data</b>   |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |
| Read and follow label directions. They are your best guide to using this product effectively, and give necessary safety precautions to protect health.  |   | <b>DOT:</b> Consumer Commodity, Hazard Class ORM-D (Limited Quantity Exception)<br><b>IMDG:</b> Aerosols (Maximum 1 Liter), Hazard Class 2, UN -1950, Packing Group III<br><b>IATA:</b> Aerosols, Flammable, Containing Substances in Division 6.1, Packing Group III (Each Not Exceeding 1 Liter Capacity), Hazard Class 2.1, UN-1950, Packing Group III   |           |           |                          |     |         |         |   |      |    |    |  |       |    |    |   |      |    |    |   |      |    |    |  |  |  |

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