1. Product And Company Identification

Supplier
Chase Products Co.
19th and Gardner Road
Broadview, IL 60155 USA

Company Contact: Aludia B. Hernandez
Telephone Number: 708-865-1000
FAX Number: 708-865-0923
E-Mail: sales@chaseproducts.com
Web Site: www.chaseproducts.com

Manufacturer
Chase Products Co.
19th and Gardner Road
Broadview, IL 60155 USA

Company Contact: Aludia B. Hernandez
Telephone Number: 708-865-1000
FAX Number: 708-865-0923
E-Mail: sales@chaseproducts.com
Web Site: www.chaseproducts.com

Supplier Emergency Contacts & Phone Number
Chem-Tel: 1-800-255-3924

Manufacturer Emergency Contacts & Phone Number
Chem-Tel: 1-800-255-3924

Issue Date: 06/13/2001
Product Name: CHASE MM INSECT REPEL
Chemical Name: 7-7778
CAS Number: Not Established
EPA Registry Number: 498-154
MSDS Number: 825
Product Code: 419-2184
Product/Material Uses - Insect Repellent

2. Composition/Information On Ingredients

<table>
<thead>
<tr>
<th>Ingredient Name</th>
<th>CAS Number</th>
<th>Percent Of Total Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTANE</td>
<td>106-97-8</td>
<td></td>
</tr>
<tr>
<td>ETHYL ALCOHOL</td>
<td>64-17-5</td>
<td></td>
</tr>
<tr>
<td>N,N-DIETHYL-META-TOLUAMIDE (DEET)</td>
<td>134-62-3</td>
<td></td>
</tr>
<tr>
<td>PROPANE</td>
<td>74-98-6</td>
<td></td>
</tr>
</tbody>
</table>

The ingredients listed on this section are only the hazardous components of the product.

3. Hazards Identification

Primary Routes(s) Of Entry - Ingestion (possible, but considered unlikely), eye and skin contact, inhalation..
Eye Hazards - Irritant to the eyes.
Skin Hazards - May cause skin reactions in rare cases.
Ingestion Hazards - This is an aerosol product, ingestion is unlikely to occur.
Inhalation Hazards - Deliberate inhalation of concentrate vapor or mist may cause headaches, dizziness and nausea.
Chronic/Carcinogenicity Effects - Not known chronic effects based on available data.
Epidemiology - None known
Teratogenicity (Birth Defects) - None known
Reproductive Effects - None known
Neurotoxicity - None known
Mutagenicity (Genetic Effect) - None known
Signs And Symptoms - Acute: Deliberate inhalation of concentrate vapor or mist may cause headaches, dizziness and nausea. May cause skin reactions in rare cases. Irritant to eyes.
Conditions Aggravated By Exposure - Do not apply over cuts, wounds or irritated skin. Pre-existing skin and
3. Hazards Identification - Continued

- respiratory disorders
  **Conditions Aggravated By Overexposure** - Do not apply over cuts, wounds or irritated skin. Pre-existing skin and respiratory disorders.

**First Aid (Pictograms)**

4. First Aid Measures

- **Eye** - Flush from eyes with plenty of water. Consult physician if injury develops.
- **Skin** - In case of skin reaction, wash skin with soap and water and consult a physician.
- **Ingestion** - Ingestion from an aerosol product is unlikely to occur. If accidentally swallowed, do not induce vomiting. Call physician immediately.
- **Inhalation** - If overcome by vapor, move victim to fresh air. Restore respiration if necessary.

5. Fire Fighting Measures

- **Flash Point**: Not available °F Not available °C
- **Flash Point Method**: Not available
- **Lower Explosive Limit**: Not available
- **Upper Explosive Limit**: Not available

- **Fire And Explosion Hazards** - This product is an aerosol product for which Flame Projection is over 18 in. with flashback. Temperatures above 120 F may cause cans to burst.
- **Extinguishing Media** - Use CO2 (Carbon Dioxide), dry chemical, or water fog.
- **Fire Fighting Instructions** - Water spray may be used to cool cans in the vicinity of fire or excessive heat.

6. Accidental Release Measures

- Provide adequate ventilation to area being treated. Soak up spills with chemically inert, absorbent material.

**Handling & Storage (Pictograms)**

7. Handling And Storage

- **Handling And Storage Precautions** - Store in a cool, dry place away from heat and open flame.
- **Handling Precautions** - Do not deliberately inhale vapor or spray mist. Avoid contact eyes. Keep out of reach of children.
- **Storage Precautions** - Keep away from heat, sparks, flame, and other sources of ignition (i.e., pilot lights, electric motors and static electricity). AEROSOL STORAGE LEVEL II (NFPA-30B)
- **Work/Hygienic Practices** - Wash hands thoroughly after using this product.

8. Exposure Controls/Personal Protection

- **Engineering Controls** - Use with adequate general and local exhaust ventilation.
- **Eye/Face Protection** - Conventional eyeglasses to guard against splashing.
- **Skin Protection** - None required.
- **Respiratory Protection** - None required if used in a well-ventilated area. Do not overspray. Follow label directions.
8. Exposure Controls/Personal Protection - Continued

<table>
<thead>
<tr>
<th>Ingredient(s) - Exposure Limits</th>
</tr>
</thead>
<tbody>
<tr>
<td>BUTANE</td>
</tr>
<tr>
<td>ACGIH TLV-TWA 800 ppm</td>
</tr>
<tr>
<td>ETHYL ALCOHOL</td>
</tr>
<tr>
<td>ACGIH TLV-TWA 1000 ppm ; OSHA PEL-TWA 1000 ppm</td>
</tr>
<tr>
<td>PROPANE</td>
</tr>
<tr>
<td>ACGIH TLV-TWA 2500 ppm ; OSHA PEL-TWA 1,000 ppm</td>
</tr>
</tbody>
</table>

9. Physical And Chemical Properties

<table>
<thead>
<tr>
<th>Appearance</th>
<th>Clear to slight yellow liquid.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Odor</td>
<td>Characteristic solvent odor.</td>
</tr>
<tr>
<td>Chemical Type</td>
<td>Mixture</td>
</tr>
<tr>
<td>Physical State</td>
<td>Liquid</td>
</tr>
<tr>
<td>Melting Point</td>
<td>Not applicable °F Not applicable °C</td>
</tr>
<tr>
<td>Boiling Point</td>
<td>Ethyl Alcohol 173 °F 78.33 °C</td>
</tr>
<tr>
<td>Specific Gravity</td>
<td>0.867 concentrate</td>
</tr>
<tr>
<td>Percent VOCs</td>
<td>64.91</td>
</tr>
<tr>
<td>Solubility</td>
<td>Insoluble</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Faster than butyl acetate</td>
</tr>
</tbody>
</table>

10. Stability And Reactivity

<table>
<thead>
<tr>
<th>Stability</th>
<th>Stable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Hazardous Polymerization</td>
<td>Will not occur</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Conditions To Avoid (Stability)</th>
<th>Temperatures above 120 F</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incompatible Materials</td>
<td>Avoid heat, open flame and contact with strong oxidizers and aluminum.</td>
</tr>
<tr>
<td>Hazardous Decomposition Products</td>
<td>Thermal decomposition may yield gases like carbon monoxide and carbon dioxide.</td>
</tr>
<tr>
<td>Conditions To Avoid (Polymerization)</td>
<td>Temperatures above 120 F</td>
</tr>
</tbody>
</table>

11. Toxicological Information

No Data Available...

12. Ecological Information

No Data Available...

13. Disposal Considerations

Wrap empty container in newspaper and dispose of it in non-incinerated trash only.

14. Transport Information

<table>
<thead>
<tr>
<th>Proper Shipping Name</th>
<th>ORM-D Consumer Commodity</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Identification Number</td>
<td>UN1950</td>
</tr>
<tr>
<td>DOT Shipping Label</td>
<td>Aerosol Consumer Commodity</td>
</tr>
</tbody>
</table>
MATERIAL SAFETY DATA SHEET
CHASE MM INSECT REPEL

15. Regulatory Information

U.S. Regulatory Information - All ingredients of this product are listed or are excluded from listing under the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

SARA Hazard Classes
Acute Health Hazard; Fire Hazard

SARA Section 313 Notification - This product does not contain any ingredients regulated under Section 313 of the Emergency Planning and Community Right-To-Know Act of 1986 or 40 CFR 372.

Ingredient(s) - State Regulations
BUTANE
New Jersey - Workplace Hazard; New Jersey - Environmental Hazard; New Jersey - Special Hazard; Pennsylvania - Workplace Hazard; Massachusetts - Hazardous Substance; New York City - Hazardous Substance

ETHYL ALCOHOL
New Jersey - Workplace Hazard; New Jersey - Special Hazard; Pennsylvania - Workplace Hazard; Massachusetts - Hazardous Substance; New York City - Hazardous Substance

PROPANE
New Jersey - Workplace Hazard; New Jersey - Environmental Hazard; New Jersey - Special Hazard; Pennsylvania - Workplace Hazard; Massachusetts - Hazardous Substance; New York City - Hazardous Substance

16. Other Information

Revision/Preparer Information
MSDS Preparer: Laura E. Radevski
MSDS Preparer Phone Number: 708-865-1000

Disclaimer
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Chase Products Co.