1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Part #: 7000
Trade Name: NAPA De-Icer
Chemical Family: ALCOHOL
Synonyms: None
Emergency Telephone (24 hr.): CHEMTREC 1-800-424-9300
Supplier: NAPA, P. O. Box 421268, Indianapolis, IN 46241

2. COMPOSITION/INFORMATION ON INGREDIENTS

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight %</th>
<th>OSHA TWA</th>
<th>OSHA STEL</th>
<th>OSHA SKIN</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Alcohol</td>
<td>55-65</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>15-25</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Propane</td>
<td>5-15</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Butane</td>
<td>0-10</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>0-10</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Iso-Butane</td>
<td>0-10</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Component</th>
<th>Weight %</th>
<th>OSHA Z PEL</th>
<th>OSHA Z TWA</th>
<th>OSHA Z Ceiling</th>
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</thead>
<tbody>
<tr>
<td>Methyl Alcohol</td>
<td>55-65</td>
<td>260 mg/m³ 200 ppm</td>
<td>260 mg/m³ 200 ppm</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>15-25</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>125 mg/m³ 50 ppm</td>
</tr>
<tr>
<td>Propane</td>
<td>5-15</td>
<td>1800 mg/m³ 1000 ppm</td>
<td>1800 mg/m³ 1000 ppm</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Butane</td>
<td>0-10</td>
<td>Not Listed</td>
<td>1900 mg/m³ 800 ppm</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>0-10</td>
<td>980 mg/m³ 400 ppm</td>
<td>980 mg/m³ 400 ppm</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Iso-Butane</td>
<td>0-10</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
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<table>
<thead>
<tr>
<th>Component</th>
<th>ACGIH TLV TWA</th>
<th>ACGIH TLV STEL</th>
<th>ACGIH TLV Ceiling</th>
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<td>Methyl Alcohol</td>
<td>200 ppm</td>
<td>250 ppm</td>
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</tr>
<tr>
<td>Ethylene Glycol</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>100 mg/m³ Aerosol.</td>
</tr>
<tr>
<td>Propane</td>
<td>1000 ppm</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Butane</td>
<td>1000 ppm</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>200 ppm</td>
<td>400 ppm</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Iso-Butane</td>
<td>1000 ppm</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
</tbody>
</table>
MATERIAL SAFETY DATA SHEET

Trade Name: NAPA De-Icer
MSDS NO. 7000
Revision Date: NOT AUTHORIZED
Date Printed 10/26/2006

3. HAZARDS IDENTIFICATION

Emergency Overview:
Danger: Extremely flammable. Danger: Poison. Content under pressure. This material is an eye and skin irritant. Ingestion of even small amounts of methyl alcohol can cause blindness and death. Possible redness and defatting may result from prolonged skin exposure to this material. Ingestion can cause irreversible nervous system damage and death. Absorption through skin increases exposure. Gross inhalation overexposure may cause: respiratory track irritation, kidney damage, blood, liver damage, lung damage and central nervous system depression. Repeated exposure over TLV can cause blindness.

HMIS Classification:
Health: *2  Flammability: 4  Physical Hazard: 2

NFPA Rating:
Health: 2  Flammability: 4  Reactivity: 0

4. FIRST AID MEASURES

Eye Contact: In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes and get medical attention immediately after flushing.

Ingestion: Induce vomiting promptly using physician’s instructions or by having patient stick finger down throat. After vomiting has been induced, give two teaspoonsful of baking soda in a glass of water. Seek immediate medical attention. Never give fluids or induce vomiting if the victim is unconscious or having convulsions.

Inhalation: If inhaled, remove to fresh air. If not breathing give artificial respiration, preferably mouth-to-mouth. If breathing is difficult give oxygen. Get medical attention.

Skin Contact: Wash with soap and water for 15 minutes. If irritation persists or signs of toxicity occur, seek medical attention. Remove contaminated clothing and shoes, and launder before reuse.

5. FIRE FIGHTING MEASURES

Flammable Properties
Flash Point °F(°C): -200 F (Propellant)
Flash Point Method: TAG Closed Cup
Flammable Limits in Air - Lower (%): 1.1%
Flammable Limits in Air - Upper (%): Not Determined
Autoignition Temperature °F(°C): 650 F (Lowest Component)
Extinguishing Media: Carbon dioxide. Use water spray to keep containers cool that are exposed to heat or flames. Foam.

Protection Of Fire-Fighters: Wear approved positive-pressure self-contained breathing apparatus and protective clothing. Vapor may cause flash fire. Warning!! Contents under pressure. Container may rupture under fire conditions. Decomposition may occur.


Aerosol Comments: NFPA Level 2 Aerosol

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Wear appropriate protective clothing and equipment to prevent skin and eye contact.

Spill Procedures: Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames.

Action to be taken if material is released or spilled:
Do not puncture or incinerate container. Contents under pressure. Wear proper protective equipment as specified in the protective equipment section. Remove sources of ignition. Leaking containers should be removed to an isolated, well-ventilated area and transferred to other suitable containers. Wipe, scrape, or soak up in an inert material and put in a container intended for flammable materials for disposal.

Environmental Precautions: Do not allow to enter sanitary drains, sewer or surface and subsurface waters. Keep out of lakes, ponds or streams.

7. HANDLING AND STORAGE

Handling and Storage: Caution: Contents under pressure. Keep away from heat and open flame. Use only in a well ventilated area. Avoid breathing vapors, if exposed to high vapor concentration, leave area at once. Avoid contact with skin and eyes. Do not puncture, incinerate or store above 120 F. Exposure to high temperatures may cause bursting. DO NOT store in the passenger compartment of an automobile.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits.

Eyes: Chemical goggles; also wear a face shield if splashing hazard exists.
8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Skin Protection: Avoid skin contact. Wear protective clothing and gloves.
Respiratory Protection: Do not breath mist or vapor. Use in a well ventilated area. Appropriate respiratory protection shall be worn when applied engineering controls are not adequate to protect against inhalation exposure.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colorless to light yellow liquid
Odor: SLIGHT ALCOHOL
pH Value: Not Determined
Vapor Pressure: 63.9 mm of Hg @ 20°C (liquid)
Vapor Density (Air=1): 1.1 (liquid)
Boiling Point (°F): 160-389 F (liquid)
Melting/Freezing Point: Not Determined.
Solubility in Water: Solubility in Water:
Bulk Density at 20°C: 7.239 lb/gal
Molecular Weight: Mixture
Specific Gravity (H20=1): .869 @ 60 F (liquid)
Viscosity: Not Determined.
Evaporation Rate: Not Determined
VOC Content(%): Not determined.
Decomposition Temperature: Not Determined

10. STABILITY AND REACTIVITY

Chemical Stability: STABLE.
Conditions to Avoid: Keep away from heat, sparks and flame. Avoid any source of ignition. Do not expose to heat or store at temperatures above 120 F.
Materials to Avoid: Contact with oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide. Carbon dioxide. and other asphyxiants.
Hazardous Polymerization: WILL NOT OCCUR

11. TOXICOLOGICAL INFORMATION

Toxicological Data:

<table>
<thead>
<tr>
<th>Component</th>
<th>Route</th>
<th>Species</th>
<th>Dose</th>
</tr>
</thead>
<tbody>
<tr>
<td>Methyl Alcohol</td>
<td>Inhalation</td>
<td>Rats</td>
<td>LC50 64,000 ppm</td>
</tr>
<tr>
<td>Ethylene Glycol</td>
<td>Inhalation</td>
<td>Rats</td>
<td>LC50 10876 mg/kg</td>
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<tr>
<td>Propane</td>
<td>NA</td>
<td>NA</td>
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<tr>
<td>Butane</td>
<td>Inhalation</td>
<td>Rats</td>
<td>LC50, 658 gm/m³/4H</td>
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<tr>
<td>Isopropyl Alcohol</td>
<td>Inhalation</td>
<td>Rats</td>
<td>LC50 16,000 ppm</td>
</tr>
<tr>
<td>Iso-Butane</td>
<td>Inhalation</td>
<td>Rats</td>
<td>LC50 57 pph/15M</td>
</tr>
</tbody>
</table>

Carcinogenicity:
12. ECOLOGICAL INFORMATION

Remarks: Ecological testing has not been conducted on this product.

13. DISPOSAL CONSIDERATION

Waste Classification: Not determined.
Waste Management: Not determined.
Disposal Method: Disposal should be made in accordance with federal, state and local regulations.

14. TRANSPORTATION INFORMATION

U.S. DOT:
Proper Shipping Name: ORM-D CONSUMER COMMODITY
Hazard Class: ORM-D
UN/NA Number: Not Applicable
DOT Packing Group: Not Applicable

IMDG:
Proper Shipping Name: Aerosols (Limited Quantity)
Hazard Class: 2.1
Hazard Subclass: Not determined.
UN No.: UN1950
Packing Group: PG II
Marine Pollutant: No

15. REGULATORY INFORMATION

US Federal Regulations:

<table>
<thead>
<tr>
<th>Component</th>
<th>SARA 313</th>
<th>SARA 302</th>
<th>TPQ</th>
<th>RQ</th>
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<tr>
<td>67-56-1</td>
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<td>Ethylene Glycol</td>
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<tr>
<td>107-21-1</td>
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<td>Propane</td>
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<td>Isopropyl Alcohol</td>
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</tr>
<tr>
<td>75-28-5</td>
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</table>
**Material Safety Data Sheet**

**Trade Name:** NAPA De-Icer  
**MSDS NO.:** 7000  
**Revision Date:** NOT AUTHORIZED  
**Date Printed:** 10/26/2006  
**US OSHA Health Classification:** Hazardous per OSHA 29 CFR 1910.1200  
**SARA 311/312 Hazard Categories:** Not Determined.

### State Regulations:

<table>
<thead>
<tr>
<th>Component</th>
<th>California Prop. 65 Cancer list</th>
<th>California - Prop 65 Developmental Toxicity</th>
<th>California Prop. 65 Reproductive Female</th>
<th>California Prop. 65 Reproductive Male</th>
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<tr>
<td>Propane</td>
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</tr>
<tr>
<td>Butane</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
<td>Not Listed</td>
</tr>
<tr>
<td>Isopropyl Alcohol</td>
<td>Not Listed</td>
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<td>Not Listed</td>
</tr>
<tr>
<td>Iso-Butane</td>
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<td>Not Listed</td>
<td>Not Listed</td>
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</tr>
</tbody>
</table>
Component | New Jersey Right-to-Know List:
--- | ---
Methyl Alcohol 67-56-1 | Substance no. 2079
 | Substance no. 2422
 | Substance no. 2423
 | Substance no. 2425
 | Substance no. 2426
 | Substance no. 2427
 | Substance no. 2428
 | Substance no. 2429
 | Substance no. 2430
 | Substance no. 1222
Ethylene Glycol 107-21-1 | Substance no. 0878
Propane 74-98-6 | Substance no. 2422
 | Substance no. 2423
 | Substance no. 2425
 | Substance no. 2426
 | Substance no. 2427
 | Substance no. 2428
 | Substance no. 2429
 | Substance no. 2430
 | Substance no. 1594
Butane 106-97-8 | Substance no. 0273
 | Substance no. 2422
 | Substance no. 2423
 | Substance no. 2425
 | Substance no. 2426
 | Substance no. 2427
 | Substance no. 2428
 | Substance no. 2429
 | Substance no. 2430
Isopropyl Alcohol 67-63-0 | Substance no. 1076
 | Substance no. 2079
 | Substance no. 2422
 | Substance no. 2423
 | Substance no. 2425
 | Substance no. 2426
 | Substance no. 2427
 | Substance no. 2428
 | Substance no. 2429
 | Substance no. 2430
 | Substance no. 2381
Iso-Butane 75-28-5 | Substance no. 2422
 | Substance no. 2423
 | Substance no. 2425
 | Substance no. 2426
 | Substance no. 2427
 | Substance no. 2428
 | Substance no. 2429
 | Substance no. 2430
 | Substance no. 1040

U.S. TSCA: The components of this product are listed on the TSCA Inventory.

Canadian Inventory: The components of this product are listed on the Canadian DSL or NDSL Inventory.

16. OTHER INFORMATION

General Notes: Do not allow undiluted material or large quantities to reach groundwater, bodies of water or sewer system. The information and recommendations contained herein are based upon tests believed to be reliable. However, the manufacturer/distributor of this product does not guarantee their accuracy or completeness NOR SHALL ANY OF THIS INFORMATION CONSTITUTE A WARRANTY, WHETHER EXPRESSED OR IMPLIED, AS TO THE SAFETY OF THE GOODS, THE MERCHANTABILITY OF THE GOODS, OR THE FITNESS OF THE GOODS FOR A PARTICULAR PURPOSE. Adjustment to conform to actual conditions of usage may be required. The manufacturer/distributor assumes no responsibility for results obtained or for incidental or consequential damages, including lost profits, arising from the use of these data. No warranty against infringement of any patent, copyright or trademark is made or implied.