Trade Name: MSDS NO. Revision Date: Date Printed

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3282 11/13/2007

12/30/2008

# 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Trade Name: Chemical Family: Synonyms: Emergency Telephone (24 hr.): Johnsens De-Icer ALCOHOL None CHEMTREC 1-800-424-9300

Supplier:

Technical Chemical Company, P.O. Box 139, Cleburne, Texas 76033

# 2. COMPOSITION/INFORMATION ON INGREDIENTS

Component	Weight %	OSHA TWA	OSHA STEL	OSHA SKIN
Methyl Alcohol 67-56-1	55-65	Not Listed	Not Listed	Not Listed
Ethylene Glycol 107-21-1	15-25	Not Listed	Not Listed	Not Listed
Propane 74-98-6	5-15	Not Listed	Not Listed	Not Listed
Butane 106-97-8	0-10	Not Listed	Not Listed	Not Listed
Isopropyl Alcohol 67-63-0	0-10	Not Listed	Not Listed	Not Listed
lso-Butane 75-28-5	0-10	Not Listed	Not Listed	Not Listed

Component	Weight %	OSHA Z PEL	OSHA Z TWA	OSHA Z Ceiling
Methyl Alcohol 67-56-1	55-65	260 mg/m <sup>3</sup> 200 ppm	260 mg/m <sup>3</sup> 200 ppm	Not Listed
Ethylene Glycol 107-21-1	15-25	Not Listed	Not Listed	125 mg/m <sup>3</sup> 50 ppm
Propane 74-98-6	5-15	1800 mg/m <sup>3</sup> 1000 ppm	1800 mg/m <sup>3</sup> 1000 ppm	Not Listed
Butane 106-97-8	0-10	Not Listed	1900 mg/m <sup>3</sup> 800 ppm	Not Listed
Isopropyl Alcohol 67-63-0	0-10	980 mg/m <sup>3</sup> 400 ppm	980 mg/m <sup>3</sup> 400 ppm	Not Listed
Iso-Butane 75-28-5	0-10	Not Listed	Not Listed	Not Listed

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Component	ACGIH TLV TWA	ACGIH TLV STEL	ACGIH TLV Ceiling
Methyl Alcohol 67-56-1	200 ppm	250 ppm	Not Listed
Ethylene Glycol 107-21-1	Not Listed	Not Listed	100 mg/m <sup>3</sup> Aerosol.
Propane 74-98-6	1000 ppm	Not Listed	Not Listed
Butane 106-97-8	1000 ppm	Not Listed	Not Listed
Isopropyl Alcohol 67-63-0	200 ppm	400 ppm	Not Listed
lso-Butane 75-28-5	1000 ppm	Not Listed	Not Listed

#### 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 matieral. 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: NFPA Rating:

Eye Contact:

Ingestion:

Inhalation:

Skin Contact

Health: \*2 Flammability: 4 Physical Hazard: 2 Health: 2 Flammability: 4 Reactivity: 0

## 4. FIRST AID MEASURES

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. Induce vomiting promptly using physician's instructions or by having patient stick finger down throut. 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. 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. 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: Special Fire-Fighting Procedures: 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. Hazardous Combustion Products: Carbon Dioxide. Carbon Monoxide. Aerosol Comments: NFPA Level 2 Aerosol

## 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Spill Procedures: Wear appropriate protective clothing and equipment to prevent skin and eye contact. Contain any liquid from leaking containers. Avoid all sources of ignition; heat, sparks and open flames.

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	6. ACCIDENTAL RELEASE MEASURES
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 cuase bursting. DO NOT store in the passenger compartment of an automobile.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:

Eyes: Skin Protection: Respiratory Protection: Use in a well ventilated area. Local exhaust ventilation as necessary to maintain exposures to within applicable limits. Chemical goggles; also wear a face shield if splashing hazard exists. Avoid skin contact. Wear protective clothing and gloves. 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: Odor: pH Value: Vapor Pressure: Vapor Density (Air=1); Boiling Point (°F): Melting/Freezing Point; Solubility in Water: Bulk Density at 20°C: Molecular Weight: Specific Gravity (H20=1); Viscosity: Evaporation Rate: VOC Content(%): Decomposition Temperature:

Colorless to light yellow liquid SLIGHT ALCOHOL Not Determined 63.9 mm of Hg @ 20C (liquid) 1.1 (liquid) 160-389 F (liquid) Not Determined. Solubility in Water: 7.239 lb/gal Mixture .869 @ 60 F (liquid) Not Determined. Not Determined Not determined. Not Determined.

## 10. STABILITY AND REACTIVITY

Chemical Stability: Conditions to Avoid:

Hazardous Decomposition Products:

Materials to Avoid:

STABLE.

Keep away from heat sparks and flame. Avoid any source of ignition. Do not expose to heat or store at temperatures above 120 F. Contact with oxidizing agents.

Carbon monoxide. Carbon dioxide. and other asphxiants. WILL NOT OCCUR

Toxicological Data:

Hazardous Polymerization:

11. TOXICOLOGICAL INFORMATION

Trade Name: MSDS NO. Revision Date: Date Printed	Johnsens De-Icer 3282 11/13/2007 12/30/2008		
Component	Route	Species	Dose
Methyl Alcohol 67-56-1	Inhalation	Rats	LC50 64,000 ppm
Ethylene Glycol 107-21-1	Inhalation	Rats	LC50 10876 mg/kg
Propane 74-98-6	NA NA	NA	Not known.
Butane 106-97-8	Inhalation	Rats	LC50, 658 gm/m³/4H
Isopropyl Alcohol 67-63-0	Inhalation	Rats	LC50 16,000 ppm
lso-Butane 75-28-5	Inhalation	Rats	LC50 57 pph/15M

Carcinogenicity:

Component	IARC	NTP	OSHA
Methyl Alcohol	Not Listed	Not Listed	Not Listed
67-56-1			
Ethylene Glycol	Not Listed	Not Listed	Not Listed
107-21-1	]		
Propane	Not Listed	Not Listed	Not Listed
74-98-6			
Butane	Not Listed	Not Listed	Not Listed
106-97-8			
Isopropyl Alcohol	Not Listed	Not Listed	Not Listed
67-63-0			
Iso-Butane	Not Listed	Not Listed	Not Listed
75-28-5	·		

# 12. ECOLOGICAL INFORMATION

Remarks:

Ecological testing has not been conducted on this product.

#### 13. DISPOSAL CONSIDERATION

Waste Classification: Waste Management: Disposal Method:

#### Not determined. Not determined. Disposal should be made in accordance with federal, state and local regulations.

# 14. TRANSPORTATION INFORMATION

U.S. DOT:

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

IMDG:

Proper Shipping Name: Hazard Class: Hazard Subclass: UN No.: Packing Group: Marine Pollutant:

Aerosiols (Limited Quantity) 2.1 Not determined. UN1950 PG II No

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# **15. REGULATORY INFORMATION**

US Federal Regulations:

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Component	SARA 313	SARA 302	TPQ	RQ	
Methyl Alcohol 67-56-1	Listed.	Not Listed	Not Listed	Not Listed	
Ethylene Glycol 107-21-1	Listed.	Not Listed	Not Listed	Not Listed	
Propane 74-98-6	Not Listed	Not Listed	Not Listed	Not Listed	
Butane 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed	
Isopropyl Alcohol 67-63-0	Listed.	Not Listed	Not Listed	Not Listed	
lso-Butane 75-28-5	Not Listed	Not Listed	Not Listed	Not Listed	

US OSHA HEALTH CLASSIFICATION: SARA 311/312 Hazard Catagories: Hazardous per OSHA 29 CFR 1910.1200 Not Determined.

State Regulations:

Component	California Prop. 65 Cancer list	California - Prop 65 Developmental Toxicity	California Prop. 65 Reproductive Female	California Prop. 65 Reproductive Male
Methyl Alcohol 67-56-1	Not Listed	Not Listed	Not Listed	Not Listed
Ethylene Glycol 107-21-1	Not Listed	Not Listed	Not Listed	Not Listed
Propane 74-98-6	Not Listed	Not Listed	Not Listed	Not Listed
Butane 106-97-8	Not Listed	Not Listed	Not Listed	Not Listed
Isopropyl Alcohol 67-63-0	Not Listed	Not Listed	Not Listed	Not Listed
lso-Butane 75-28-5	Not Listed	Not Listed	Not Listed	Not Listed

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	New Jersey Right-to-Know List:	
<u>Component</u>		
Methyl Alcohol	Substance no. 2079	
67-56-1	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	
	Substance no. 2422	
Propane	Substance no. 2423	
74-98-6	Substance no. 2425	
	Substance no. 2426	
	Substance no. 2427	
	Substance no. 2428	
	Substance no. 2429	
	Substance no. 2430	
	Substance no. 1594	
Butane	Substance no. 0273	
	Substance no. 2422	
106-97-8	Substance no. 2423	
	Substance no. 2425	
	Substance no. 2426	
	Substance no. 2427	
	Substance no. 2428	
	Substance no. 2429	
	Substance no. 2430	
Isopropyl Alcohol	Substance no. 1076	
67-63-0	Substance no. 2079	
07-03-0	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	Substance no. 2422	х.
75-28-5	Substance no. 2423	
	Substance no. 2425	
	Substance no. 2426	
	Substance no. 2427	
	Substance no. 2428	
1	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.

 Consumer Product Safety Improvement Act of 2008 General Conformity Certification

The Supplier identified in Section 1 of this MSDS has evaluated this product and certifies it to be labeled and packaged in compliance with the applicable provisions of the Federal Hazardous Substance Act as stated in 16 CFR 1500 and enforced by the Consumer Product Safety Commission, and where applicable the products that require Child Resistant Closures are packaged in accordance with the Poison Prevention Packaging Act as stated in 16 CFR 1700 and enforced by the Consumer Product Safety Commission. All closures have been tested in accordance with the latest protocols. No other testing is required to certify compliance with the above. The date of manufacture is stamped on the product container.

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#### **16. OTHER INFORMATION**

General Notes: Disclaimer: 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.