

WARREN OIL COMPANY, INC.

MATERIAL SAFETY DATA SHEET

Warren Oil Company, Inc.
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Product: Autoguard De-Icer

Section 1: Product Identification

Chemical Name: De-Icer blend of alcohols
Synonym(s)/Common Name(s): Windshield De-Icer

Chem Formula: NA Mixture
CAS Number: NA Mixture

DOT Ship Name: Aerosol
DOT Haz Class: 2.1
DOT ID Number: UN1950

Chemtrec: 1-800-CMA-8200

IMCO Ship Name: Aerosol
IMCO Hazard Class: 9
IMCO I.D. #: 1950

Hazard Ratings: Health 1 Flammability 4 Reactivity 1

Section 2: Hazardous Ingredients

Ingredient	OSHA PEL/ACGIH TLV	CAS Number	Percent
Methyl Alcohol	NA/200 PPM, 260 Mg/m3	67-56-1	>20.0%
Ethylene Glycol	None/50	107-21-1	<6.0%
Isopropyl Alcohol	400/400	67-63-0	<2.0%
2-Mercaptobenzothiazole	NA/NA	N/A	<.02%
Water	NA/NA	N/A	>65.0%
Butane & Propane (A60)	1000/1000	Mixture	<30.0%

Section 3: Physical Characteristics

pH: No data
Viscosity: No data

Section 4: Fire and Explosion

Autoignition Temperature: 385 deg. C (725 deg. F)

Decomposition Products Under Fire Conditions: Decomposition occurs from heat and reaction with strong oxidizers, chromic anhydride, lead perchlorate, perchloric acids.

“Empty” Container Warning: Follow accepted industry practices and/or comply with applicable Federal, State, and Local government regulations. Check before handling.

Extinguishing Media and Fire Fighting Procedures: Use dry chemical CO₂, water spray, or alcohol foam. Use water spray to cool tanks or containers under fire fighting conditions. NOTE: Product is flammable. Flame is invisible in daylight. Methanol-water mixtures will burn unless very dilute; mixtures with 25% or more methanol are DOT Class I Flammable Liquids.

Flash Point (min.): -76 deg F (-60 deg F)

Flammable or Explosive Limits (APRX. % by volume in air)
Lower 6.0% Upper 36.0%

Section 5: Reactivity Data

Reactivity: Reacts vigorously with strong oxidizers, chromic anhydride, lead perchlorate, perchloric acid.

Section 6: Health Hazard Data

Effects of Overexposure (Signs and Symptoms of Exposure): Read “Variability Among Individuals.” (The symptoms occur principally after oral ingestion and are rare after inhalation.

Ingestion: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Call a physician.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. If breathing is difficult, give oxygen. Call a physician.

Nature of Hazard: Points of Attack: Eyes, skin, central nervous system, gastrointestinal system.

Skin Contact

Vapor Contact: Flush with fresh water for at least 20 minutes.

Liquid Contact: Flush exposed area with lukewarm water or otherwise warm skin slowly. Frostbite is probably. Call a physician.

Variability Among Individuals

Local: Contact with material can produce defatting and mild dermatitis. Methanol is virtually non-irritating to the eyes or upper respiratory tract below 2,000 PPM, and it is difficult to detect by odor at less than this level.

Systemic: Methanol may cause optic nerve damage and blindness. Other CNS effects result from and include narcosis, and include headache, nausea, giddiness, and of consciousness.

Section 7: Precautions for Safe Handling and Use

Safe Handling: For safe handling the use of neoprene coated cotton lined gloves or solvent resistant.

Section 8: Industrial Hygiene Control Measures

Industrial Hygiene Control Measures: Do not breath vapors. Avoid contact with eyes, skins and clothing. Wear protective clothing including goggles and solvent resistant. Wash promptly when skin is wet. Wash hands thoroughly with soap and water before meals.

Section 9: Special Precautions

Spill or Leak Procedures: Dike up large spills. Flush spill area with plenty of water. Do not flush to sewer. Comply with Federal, State, and Local regulations on reporting releases.

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March 24, 2005