

Windshield Washer & Antifreeze -35°C

Section 1: MANUFACTURER/PREPARER INFORMATION & HAZARD WARNINGS

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WHMIS HAZARD SYMBOLS & DEFINITIONS



Class B: Combustible & flammable material

Class D-1: Poisonous & infectious material, immediate & serious toxic effects

Class D-2: Poisonous & infectious material, other toxic effects

Section 2: HEALTH HAZARD DATA

ROUTES OF ENTRY/SIGNS & SYMPTOMS OF ACUTE EXPOSURE:

EYES: Slightly hazardous in case of eye contact (irritant). **SKIN:** Very slightly to slightly dangerous in case of skin contact (irritant, permeator). Non-sensitizer for skin. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. **INHALATION:** Hazardous in case of inhalation. **INGESTION:** Extremely hazardous in case of ingestion. May be fatal if swallowed. Ingestion may cause blindness. single human lethal dose = 100-125mL **Note to Physician:** Acute exposure to methanol, either through ingestion or breathing high airborne concentrations can result in symptoms appearing between 40 minutes and 72 hours after exposure. Symptoms and signs are usually limited to CNS, eyes and gastrointestinal tract. Because of the initial CNS's effects of headache, vertigo, lethargy and confusion, there may be an impression of ethanol intoxication. Blurred vision, decreased acuity and photophobia are common complaints. Treatment with ipecac or lavage is indicated in any patient presenting within two hours of ingestion. A profound metabolic acidosis occurs in severe poisoning and serum bicarbonate levels are a more accurate measure of severity than serum methanol levels. Treatment protocols are available from most major hospitals and early collaboration with appropriate hospitals is recommended.

Chronic Effects: Very hazardous in case of ingestion. Slightly hazardous in case of skin contact (irritant). **Carcinogens:** None. **Medical Conditions Aggravated by Exposure:** None reported.

EMERGENCY & FIRST AID PROCEDURES:

EYES: IMMEDIATELY flush eyes with running water for at least 15 minutes, keeping eyelids open. Seek medical attention. **SKIN:** Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, get medical attention. Wash contaminated clothing before reusing. **INHALATION:** Allow the victim to rest in a well ventilated area. Seek medical advice. **INGESTION:** DO NOT induce vomiting. Have conscious person drink several glasses of water or milk. SEEK IMMEDIATE MEDICAL ATTENTION.

Section 3: PREVENTATIVE MEASURES

Respiratory Protection: Wear appropriate respirator when ventilation is inadequate.

Ventilation: Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value.

Gloves: Impervious gloves. **Eye Protection:** Splash goggles. **Other Protective Measures:** Ensure that eyewash stations and safety showers are proximal to the work-station location.

Work/Hygienic Practices: After handling, always wash hands thoroughly with soap and water.

Handling and Storing: Handle and open container with care. Avoid all possible sources of ignition (spark or flame). Store and use away from heat, sparks, open flame, or any other ignition source. Keep away from sources of ignition. Keep away from incompatibles. Keep in a cool, well-ventilated place.

KEEP OUT OF THE REACH OF CHILDREN AND ANIMALS.

N/A=Not Applicable. N/E=Not Evaluated/Established. N/R=Not Reported by Manufacturer.

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Section 4: HAZARDOUS COMPONENTS & EXPOSURE LIMITS

Hazardous Component Name	CAS #	OSHA PEL	ACGIH-TLV	Other Limit	% Wt
Methanol	67-56-1	200 ppm Skin	200 ppm	250 ppm STEL	40-50

§ indicates a toxic chemical subject to the reporting requirements of SARA Title III, Section 313.

† indicates a chemical known to the State of California to cause cancer, birth defects or other reproductive harm per Proposition 65.

Section 5: PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	64.5-100°C/148.1-212°F	Specific Gravity:	0.9-0.95
Vapor Pressure:	<12.8 kPa @ 20°C	Percent Volatile:	40-50
Vapor Density (Air=1):	1.11	Evaporation Rate:	2.1 cf. BuAc
Solubility in Water:	Soluble	pH:	8-10.5 [Basic]
Appearance/Odor:	Blue liquid/Slight alcohol.		

Section 6: FIRE & EXPLOSION HAZARD DATA

Flash Point (Method):	28°C/82.4°F (TCC) FLAMMABLE	Flammable Limits. LEL: 6%	UEL: 36%
Extinguishing Media:	SMALL FIRE: Use DRY chemicals, CO ₂ , alcohol foam or water spray. LARGE FIRE: Use alcohol foam, water spray or fog.		
Special Firefighting Procedures:	Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.		
Unusual Fire and Explosion Hazards:	Combustible liquid and vapor.		

Section 7: REACTIVITY DATA

Stability: Stable. **Hazardous Polymerisation:** Will not occur. **Conditions to Avoid:** None. **Incompatibility:** Slightly reactive to reactive with oxidizing agents, acids, alkalis. **Hazardous Decomposition Products:** Carbon oxides (CO, CO₂).

Section 8: SPILLS, DISPOSAL & ADDITIONAL INFORMATION

Spill/Leak Procedures:	SMALL: Mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. LARGE: Keep away from heat. Keep away from sources of ignition. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Place in appropriate container and dispose of in accordance with regional regulations.
Waste Disposal:	Waste must be disposed of in accordance with federal, state or provincial and local environmental control regulations.
Additional Information:	HMIS (USA) Ratings: Health-2, Flammability-2, Reactivity-0, PPE-B.

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