

50/50 Premixed Diesel Extended Life Antifreeze/Coolant**Section 1: MANUFACTURER/PREPARER INFORMATION & HAZARD WARNINGS**

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WHMIS HAZARD SYMBOLS & DEFINITIONS

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

Section 2: HEALTH HAZARD DATA**ROUTES OF ENTRY/SIGNS & SYMPTOMS OF ACUTE EXPOSURE:**

EYES: May cause mild eye irritation. **SKIN:** May cause mild skin irritation. **INHALATION:** Unlikely to be inhaled because of physical characteristics, however, heated material may produce vapours, which may cause irritation to lungs if inhaled excessively. Inhalation, particularly of mist, may cause irritation of the nose and throat with headache. High vapour concentrations may produce nausea, vomiting, headache, dizziness and irregular eye movement. **INGESTION:** Toxic by ingestion. May cause abdominal discomfort or pain, nausea, vomiting, dizziness, central nervous system effects and coma. Cardiac failure, pulmonary edema and severe kidney damage may develop.

Chronic Effects: None. **Carcinogens:** None. **Medical Conditions Aggravated by Exposure:** Pre-existing skin, eye, and respiratory disorders may be aggravated by exposure to this product. **Note to Physician:** The signs and symptoms in ethylene glycol poisoning are those of metabolic acidosis central nervous system depression and kidney injury. Clinical chemistry may reveal anion-gap metabolic acidosis and uremia. Treatment with ethanol to inhibit the metabolism of glycol to oxalate. Early administration of ethanol may counter the toxic effects of ethylene glycol (cardiopulmonary effects attributed to metabolic acidosis and renal damage).

EMERGENCY & FIRST AID PROCEDURES:

EYES: IMMEDIATELY flush eyes with running water for at least 20 minutes, keeping eyelids open. If irritation persists, seek medical attention. **SKIN:** Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. If irritation persists, seek medical attention. Wash contaminated clothing before reusing. **INHALATION:** Allow the victim to rest in a well-ventilated area. If irritation persists, seek medical attention. If breathing is difficult, administer oxygen. If victim is not breathing have qualified personnel administer artificial respiration. **INGESTION:** Do NOT induce vomiting unless directed to do so by medical personnel. SEEK IMMEDIATE MEDICAL ATTENTION. If medical advice is delayed, and a moderate volume has been swallowed, have individual consume three to four ounces of hard liquor, such as whiskey (antidote is inhibition of alcohol dehydrogenase to prevent kidney damage).

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: Gloves (impervious). Nitrile gloves. Neoprene gloves. **Eye Protection:** Splash goggles. Face shield when handling elevated temperature material. **Other Protective Measures:** Wear suitable protective clothing when handling elevated temperature material.

Work/Hygienic Practices: After handling, always wash hands thoroughly with soap and water. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Handling and Storing: DO NOT swallow. Avoid contact with eyes. Avoid breathing vapours or spray mists. Wear suitable protective clothing. Use in a well ventilated area. Avoid contamination with reactive substances. Keep container dry. Keep container tightly closed. Keep in a cool, well-ventilated place. Store in an appropriate container. If the fluid is exposed to excessively high temperatures, thermal degradation can occur, avoid high temperatures or sources of heat during extended storage periods.

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
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Hazardous Component Name	CAS #	OSHA PEL	ACGIH-TLV	Other Limit	% Wt
Ethylene glycol	107-21-1	N/A	100 mg/m3 Ceil	N/A	45-55
Sodium benzoate	532-32-1	N/A	N/A	N/A	1-5

§ 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:	129°C/264.2°F	Specific Gravity:	1.07-1.08
Vapor Pressure:	0.06 mmHg @ 20°C	Percent Volatile:	0
Vapor Density (Air=1):	2.1	Evaporation Rate:	0.01 cf. BuAc
Solubility in Water:	Soluble	pH:	7-9 [Basic]
Appearance/Odor:	Clear viscous liquid/Odourless.		

Section 6: FIRE & EXPLOSION HAZARD DATA
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Flash Point (Method):	None. Aqueous solutions are non-flammable.	Flammable Limits. LEL:	N/A	UEL:	N/A
Extinguishing Media:	SMALL FIRE: Use DRY chemicals, CO2, water spray or foam. LARGE FIRE: Use water spray, fog or foam. DO NOT use water jet.				
Special Firefighting Procedures:	Cool containing vessels with water jet in order to prevent pressure build-up, autoignition or explosion.				
Unusual Fire and Explosion Hazards:	When heated to decomposition, it emits acrid smoke and irritating fumes. May be combustible at high temperature. Not a product presenting risks of explosion.				

Section 7: REACTIVITY DATA

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

Section 8: SPILLS, DISPOSAL & ADDITIONAL INFORMATION

Spill/Leak Procedures:	SMALL: Dilute with water and mop up, or absorb with an inert DRY material and place in an appropriate waste disposal container. LARGE: Stop leak if without risk. Prevent entry into sewers, basements or confined areas; dike if needed. Absorb with an inert material and put the spilled material in an appropriate waste disposal.
Waste Disposal:	Waste must be disposed of in accordance with federal, state or provincial and local environmental control regulations.
Additional Information:	N/A

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