

WHMIS/US OSHA Material Safety Data Sheet for:
Premium R.V. Plumbing Antifreeze -50°C

Section 1: MANUFACTURER/PREPARER INFORMATION & HAZARD WARNINGS

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WHMIS HAZARD SYMBOLS & DEFINITIONS



Class B: Combustible & flammable material
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:** Slightly hazardous in case of skin contact (irritant). Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering. **INHALATION:** Non-irritant for lungs. **INGESTION:** Slightly hazardous in case of ingestion.

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

EMERGENCY & FIRST AID PROCEDURES:

EYES: Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. Get medical attention if irritation occurs. **SKIN:** Wash with soap and water. Cover the irritated skin with an emollient. Get medical attention if irritation develops. Cold water may be used. **INHALATION:** If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention if symptoms appear. **INGESTION:** Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. Loosen tight clothing such as a collar, tie, belt or waistband. Get medical attention if symptoms appear.

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:** Safety glasses. **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: Keep away from heat, sparks and flame. Keep container closed. Use only with adequate ventilation. To avoid fire or explosion, dissipate static electricity during transfer by grounding and bonding containers and equipment before transferring material. Use explosion-proof electrical (ventilating, lighting and material handling) equipment. Store in a segregated and approved area. Keep container in a cool, well-ventilated area. Keep container tightly closed and sealed until ready for use. Avoid all possible sources of ignition (spark or flame).

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
Ethyl Alcohol 95%	64-17-5	1000 ppm	1000 ppb	N/A	10-30
Propylene glycol	57-55-6	N/A	N/A	N/A	10-15

§ 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:	78°C/172.4°F	Specific Gravity:	0.96-0.98
Vapor Pressure:	43 mmHg @ 20°C	Percent Volatile:	98
Vapor Density (Air=1):	1.59	Evaporation Rate:	2.4 cf. BuAc
Solubility in Water:	Soluble	pH:	7.5-8.5 100% [Basic]
Appearance/Odor:	Pink liquid/Slight lemon-like odour.		

Section 6: FIRE & EXPLOSION HAZARD DATA

Flash Point (Method):	35°C/95°F (CC) FLAMMABLE	Flammable Limits. LEL: 3% UEL: 19%
Extinguishing Media:	SMALL FIRE: Use DRY chemical powder. 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:	Explosive in the form of vapour when exposed to heat or flame. Vapour may travel considerable distance to source of ignition and flash back. When heated to decomposition it emits acrid smoke and irritating fumes. Container explosion may occur under fire conditions or when heated. Containers may rupture from pressure build-up.	

Section 7: REACTIVITY DATA

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

Section 8: SPILLS, DISPOSAL & ADDITIONAL INFORMATION

Spill/Leak Procedures:	SMALL: Absorb with an inert 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. Do not touch spilled material. Prevent entry into sewers, basements or confined areas; dike if needed.
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-1, Flammability-2, Reactivity-0, PPE-B.

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