

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product name: EnviroFrost 50% (#1451)

Recommended use: Heat transfer fluid for closed-loop systems.

Manufacturer: EnviroWay Detergent Manufacturing Incorporated

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Saskatoon, SK S7L 6A7, Canada

Tel: 306-244-7727

Fax: 306-244-7772

Toll free: 1-888-274-0862, www.enviroway.ca

Emergency phone:

Leak and Spill: 1-800-667-7525 (SASK SPILLS) for the Province of Saskatchewan

1-866-845-6037 (Environment Canada) for anywhere else

In Transit: 1-613-996-6666 or *666 on cellular phone (CANUTEC)

Poison Control: 1-866-454-1212 (Saskatchewan)

SECTION 2: HAZARD IDENTIFICATION

CONCENTRATE HAZARDS:

Hazard classification

None

Signal word

None

Hazard statements

None

Precautionary statements

None

SECTION 3: COMPOSITION

Ingredient	CAS #	% by weight
Propylene Glycol	57-55-6	50

Ingredients not shown are either not hazardous or present below cut-off values. Ranges shown are due to batch-to-batch variation.

SECTION 4: FIRST AID MEASURES

IF SWALLOWED: Rinse mouth. Call a POISON CENTRE/doctor if you feel unwell.

IF ON SKIN: Wash with plenty of water. If skin irritation occurs seek medical advice/attention.

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do so. Continue rinsing. If eye irritation persists seek medical advice/attention.

IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. If experiencing respiratory symptoms: Call a POISON CENTRE or doctor/physician.

SECTION 5: FIRE FIGHTING MEASURES

Flammable: Not flammable

Means of Extinction: Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

Flashpoint: Not available

Special Fire Fighting Procedures: Use water spray to keep containers cool. Fire fighters should wear self-contained breathing apparatus and full protective clothing.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Leak and Spill Procedures: Sweep up spillage. Use a water rinse for final cleanup.

SECTION 7: HANDLING AND STORAGE

Handling Procedures and Equipment: Use good industrial hygiene. Do not ingest. Avoid contact with skin and eyes.

Storage Requirements: Store in dry area. Product is hygroscopic, which may cake and become wet from atmospheric moisture.

SECTION 8: PERSONAL PROTECTION

Ingredient	Exposure limit – ACGIH	Exposure limit – OSHA	Exposure limit – IDLH
Propylene Glycol	Not available	Not available	Not available

Gloves: It is good practice to wear chemical resistant gloves while handling this product.

Respirator: A respirator is not normally required if adequate ventilation is provided. Use NIOSH/MSHA approved equipment when exposure limits are exceeded.

Eye: It is good practice to wear chemical safety glasses while handling this product.

Other (Specify): An eyewash station and shower should be available nearby.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Colourless liquid (oily)

Odour: Odourless

Odour Threshold (ppm): Information not available

pH: Information not available

Freezing Point: < -33°C

Initial Boiling Point/Range: 105°C

Flash point: Information not available

Evaporation Rate: ~0.01

Flammability: Not flammable

Upper/lower flammability/explosive limit: Information not available

Vapour Pressure (mmHg): Information not available

Vapour Density (air = 1): Information not available

Relative density: ~1.03

Solubility in Water: Soluble

Partition coefficient: Information not available

Auto-ignition temperature: Information not available

Decomposition temperature: Information not available

Viscosity: Information not available

SECTION 10: STABILITY AND REACTIVITY

Chemical Stability: Stable

Hazardous Polymerization: Will not occur.

Materials to Avoid: Oxidizing agents, reducing agents and alkalis.

Hazardous Decomposition Products: Aldehydes, alcohols, ethers, and organic acids.

SECTION 11: TOXICOLOGICAL INFORMATION

Ingredient	LD50 oral (mg/kg) (rat)	LD50 dermal (mg/kg)	LC50 inhalation (mg/L)
Propylene Glycol	20000	20800	Not available

EFFECTS OF ACUTE EXPOSURE:

Ingestion: May cause nausea, vomiting, and gastrointestinal irritation and diarrhoea.

Skin Contact: May cause mild skin irritation. Prolonged contact may cause flaking and softening of the skin softening.

Eye Contact: May cause eye irritation.

Inhalation: Formation of mist may cause irritation to the respiratory tract.

Germ cell mutagenicity: Not applicable

Carcinogenicity: Not applicable

Reproductive toxicity: Not applicable

STOT single exposure: Not applicable

STOT repeated exposure: Not applicable

Aspiration hazard: Not available

Routes of exposure: Ingestion, inhalation, skin/eye exposure

EFFECTS OF CHRONIC EXPOSURE:

Skin Contact: Not known.

Eye Contact: Not known.

Ingestion: Not known

Numerical measures of toxicity:

Oral: LD50 40,000 mg/kg

Dermal: LD50 41,600 mg/kg

Inhalation: Not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ingredient	Fish	Crustaceans	Algae
Propylene Glycol	LC ₅₀ (96h): 44,000-51,600 mg/L (Rainbow Trout)	EC ₅₀ (48h): 10,000 mg/L (Daphnia magna)	EC ₅₀ (96h): 18,100mg/L

Persistence and Degradability: Biodegradation is expected.

Bioaccumulation/Accumulation: No information available.

Mobility: No information available.

Other adverse effects: An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste Disposal: Dispose of in accordance with local regulations at government approved waste sites.

SECTION 14: TRANSPORT INFORMATION

Special Shipping Information: None

TDG (Canada):

TDG Proper Shipping Name: Not Regulated

Hazard Class: Not Applicable.

UN Number: Not Applicable.

Packing Group: Not Applicable.

Note: No additional remark.

Marine Pollutant: None

Note: No additional remark.

Marine Pollutant: None

SECTION 15: REGULATORY INFORMATION

Canadian DSL Inventory Status: All ingredients are specified on the Domestic Substances List or exempt

SECTION 16: OTHER INFORMATION

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