

SAFETY DATA SHEET

SECTION 1: IDENTIFICATION

Product name: EnviroTherm (#1452)

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

Manufacturer: EnviroWay Detergent Manufacturing Incorporated
2241 Hanselman Ave.
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

Hazard classification

Acute toxicity – Oral	Category 4
STOT single exposure	Category 3
STOT repeated exposure	Category 2

Signal word Danger



Hazard statements

Harmful if swallowed.

May cause drowsiness or dizziness.

May cause damage to the liver and kidneys through prolonged or repeated exposure.

Precautionary statements

Prevention Wash hands thoroughly after handling.
Do not eat, drink or smoke when using this product.
Use only outdoors or in a well-ventilated area.
Do not breathe mist or spray.

Response Get medical advice/attention if you feel unwell.
IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.
IF INHALED: Remove person to fresh air and keep comfortable for breathing.

Storage Store in a well-ventilated place. Keep container tightly closed.

Store locked up.
Disposal Dispose of in accordance with local regulations at government approved waste

SECTION 3: COMPOSITION

The following ingredients have hazardous properties:

Ingredient	CAS #	% by weight
Ethylene glycol	107-21-1	95-100

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

Eye Contact: Rinse with water. If irritation persists seek medical attention.

Skin Contact: Rinse with water. If skin irritation occurs seek medical advice/attention.

Inhalation: Remove person to fresh and keep comfortable for breathing. Seek medical attention.

Ingestion: Rinse mouth. Seek medical attention if you feel unwell.

SECTION 5: FIRE FIGHTING MEASURES

Flammable: No

Means of Extinction: Use foam, dry chemical and water fog. Use water spray only to cool.

Flashpoint: 111°C

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: Pickup with mops. Wash down residue with water.

SECTION 7: HANDLING AND STORAGE

Handling Procedures and Equipment Do not ingest. Avoid contact with skin and eyes. Handle in accordance with good industrial hygiene.

Storage Requirements: Store in a dry, well-ventilated and cool place away from incompatible materials.

****KEEP OUT OF REACH OF CHILDREN****

SECTION 8: PERSONAL PROTECTION

Ingredient	Exposure limit – ACGIH	Exposure limit – OSHA	Exposure limit – IDLH
Ethylene glycol	Not available	Not available	Not available

Gloves: Not required with routine use. It is good practice to wear protective gloves.

Respirator: Not required with routine use.

Eye: Safety glasses should be worn while product is being handled.

Footwear: Not required with routine use.

Clothing: Not required with routine use.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear liquid
Odour: Odourless
Odour Threshold (ppm): Information not available
pH: Information not available
Freezing Point: Information not available
Initial Boiling Point/Range: Information not available
Flash point: 111°C
Evaporation Rate: Information not available
Flammability: Not flammable
Upper/lower flammability/explosive limit: 3.2% (lower); 15% (upper)
Vapour Pressure (mmHg): Information not available
Vapour Density (air = 1): Information not available
Relative density: Information not available
Solubility in Water: Soluble
Partition coefficient: Information not available
Auto-ignition temperature: 398°C
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: Strong oxidizing agents. Reacts violently with chlorosulfonic acid, oleum, sulfuric acid, perchloric acid. Causes ignition at room temperature with chromium trioxide, potassium permanganate and sodium peroxide; causes ignition at 100°C with ammonium dichromate, silver chlorate, sodium chloride and uranyl nitrate.
Hazardous Decomposition Products: Information not available

SECTION 11: TOXICOLOGICAL INFORMATION

Ingredient	LD50 oral (mg/kg) (human)	LD50 dermal (mg/kg)	LC50 inhalation (mg/L)
Ethylene glycol	1500	9530	Not established

EFFECTS OF ACUTE EXPOSURE:

Skin Contact: Prolonged or repeated contact may cause drying or irritation of the skin.
Eye Contact: May cause mild irritation.
Ingestion: Consumption of large quantities may cause nausea, vomiting, and gastrointestinal irritation and diarrhoea.

Germ cell mutagenicity: Not available
Carcinogenicity: None of the ingredients are on IARC or ACGIH lists as carcinogens

Reproductive toxicity: Not available
STOT single exposure: Can cause drowsiness or dizziness.

STOT repeated exposure: May cause damage to the kidney and liver through prolonged or repeated exposure.

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 measure of toxicity:

Oral: LD50 = 1515 mg/kg

Dermal: LD50 = 10,733 mg/kg

Inhalation: Information not available

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity:

Ingredient	Fish	Crustaceans	Algae
Ethylene glycol	LC ₅₀ (96h): 18,500mg/L (Oncorhynchus mykiss)	LC ₅₀ (48h): 10,000mg/L (Daphnia magna)	EC ₅₀ (7d): 10,920mg/L (Lemna gibba)

Persistence and Degradability: Readily biodegradable

Bioaccumulation/Accumulation: No information available.

Mobility: Information not available

Other adverse effects: No information available.

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

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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