



MATERIAL SAFETY DATA SHEET

1. Product and Company Identification

Material name ENVIROTEMP FR3 FLUID
Version # 01
Issue date 06-13-2012
Revision date -
Supersedes date -
CAS # Mixture
MSDS Number 12.55.1
Product use Dielectric Coolant
Manufacturer/Supplier Industrial Oils & Lubricants
9320 Excelsior Blvd.
Hopkins, Minnesota 55343
US
IOLCustomerService@cargill.com

General Information: 1-800-842-3631

Emergency Emergency Telephone: 1-800-424-9300

2. Hazards Identification

Physical state Liquid.
Appearance Green Liquid.
Emergency overview CAUTION!

Prolonged or repeated skin contact may cause drying, cracking, or irritation.
This product is not hazardous according to OSHA 29CFR 1910.1200.

OSHA regulatory status

Potential health effects

Routes of exposure

Skin contact.

Eyes

Direct contact with eyes may cause temporary irritation.

Skin

Prolonged or repeated contact may cause itching, redness, and rash in some individuals.

Inhalation

Under normal conditions of intended use, this material is not expected to be an inhalation hazard.

Ingestion

No harmful effects expected in amounts likely to be ingested by accident.

3. Composition / Information on Ingredients

Components	CAS #	Percent
Vegetable Oil	8001-22-7	> 98.5

Composition comments

All concentrations are in percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

4. First Aid Measures

First aid procedures

Eye contact

Any material that contacts the eye should be washed out immediately with water. If easy to do, remove contact lenses. Get medical attention promptly if symptoms occur after washing.

Skin contact

Wash skin with soap and water. Get medical attention promptly if symptoms occur after washing.

Inhalation

If symptomatic, move to fresh air. Get medical attention if symptoms persist.

Ingestion

First aid is normally not required. However, if greater than 1/2 liter (pint) ingested, seek medical attention.

5. Fire Fighting Measures

Flammable properties

No unusual fire or explosion hazards noted.

Extinguishing media	
Suitable extinguishing media	Water. Water fog. Foam. Dry chemical powder. Carbon dioxide (CO ₂).
Fire fighting equipment/instructions	Self-contained breathing apparatus and full protective clothing must be worn in case of fire.
Hazardous combustion products	Carbon oxides.

6. Accidental Release Measures

Personal precautions	Wear appropriate personal protective equipment (See Section 8).
Environmental precautions	Environmental manager must be informed of all major releases.
Methods for cleaning up	Absorb spill with vermiculite or other inert material, then place in a container for chemical waste. Large Spills: Flush area with water. Prevent runoff from entering drains, sewers, or streams. Dike for later disposal.

7. Handling and Storage

Handling	Observe good industrial hygiene practices.
Storage	Keep container closed.

8. Exposure Controls / Personal Protection

Occupational exposure limits	No exposure limits noted for ingredient(s).
Engineering controls	Ensure adequate ventilation, especially in confined areas.
Personal protective equipment	
Eye / face protection	Wear safety glasses with side shields (or goggles).
Skin protection	Wear chemical-resistant gloves, footwear and protective clothing appropriate for risk of exposure. Contact glove manufacturer for specific information.
Respiratory protection	If engineering controls do not maintain airborne concentrations below recommended exposure limits (where applicable) or to an acceptable level (in countries where exposure limits have not been established), an approved respirator must be worn. Respirator type: Air-purifying respirator with an appropriate, government approved (where applicable), air-purifying filter, cartridge or canister.
General hygiene considerations	Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

9. Physical & Chemical Properties

Appearance	Green Liquid.
Physical state	Liquid.
Form	Liquid.
Color	Green.
Odor	Mild.
Odor threshold	Not available.
pH	Neutral
Vapor pressure	< 0.01 mm Hg @ 20 °C
Vapor density	Not available.
Boiling point	> 680 °F (> 360 °C)
Melting point/Freezing point	Not Available
Solubility (water)	Insoluble
Specific gravity	0.92
Flash point	590 - 608 °F (310 - 320 °C) Closed Cup
Flammability limits in air, upper, % by volume	Not Available.
Flammability limits in air, lower, % by volume	Not Available.
Auto-ignition temperature	753.8 - 759.2 °F (401 - 404 °C)

VOC	< 0.001 g/l
Viscosity	33 - 35 mm ² /s @ 40 °C
Other data	
Decomposition temperature	Not Available.

10. Chemical Stability & Reactivity Information

Chemical stability	Material is stable under normal conditions.
Conditions to avoid	Excessive heat.
Incompatible materials	Strong oxidizing agents.
Hazardous decomposition products	No hazardous decomposition products are known.
Possibility of hazardous reactions	Hazardous polymerization does not occur.

11. Toxicological Information

Sensitization	No sensitizing effects known.
Acute effects	Prolonged or repeated skin contact may cause drying, cracking, or irritation.
Local effects	High mist concentrations may cause irritation of respiratory tract.
Carcinogenicity	This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.
Symptoms and target organs	Prolonged or repeated skin contact may cause drying, cracking, or irritation.

12. Ecological Information

Ecotoxicity	Not expected to be harmful to aquatic organisms.
Persistence and degradability	No data available.
Bioaccumulation / Accumulation	No data available.
Mobility in environmental media	No data available.

13. Disposal Considerations

Disposal instructions	Dispose of contents/container in accordance with local/regional/national/international regulations.
Waste from residues / unused products	Dispose of in accordance with local regulations.
Contaminated packaging	Since emptied containers may retain product residue, follow label warnings even after container is emptied.

14. Transport Information

DOT	Not regulated as a hazardous material by DOT.
IATA	Not regulated as dangerous goods.
IMDG	Not regulated as dangerous goods.
TDG	Not regulated as dangerous goods.

15. Regulatory Information

US federal regulations	This product is not hazardous according to OSHA 29CFR 1910.1200. All components are on the U.S. EPA TSCA Inventory List.
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TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not regulated.

CERCLA (Superfund) reportable quantity (lbs) (40 CFR 302.4)

None

Superfund Amendments and Reauthorization Act of 1986 (SARA)

Hazard categories
Immediate Hazard - No
Delayed Hazard - No
Fire Hazard - No
Pressure Hazard - No
Reactivity Hazard - No

Section 302 extremely hazardous substance (40 CFR 355, Appendix A)
No

Section 311/312 (40 CFR 370)
No

Drug Enforcement Administration (DEA) (21 CFR 1308.11-15)
Not controlled

WHMIS status
Non-controlled

Inventory status

Country(s) or region	Inventory name	On inventory (yes/no)*
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
United States & Puerto Rico	Toxic Substances Control Act (TSCA) Inventory	Yes

*A "Yes" indicates this product complies with the inventory requirements administered by the governing country(s)

State regulations
This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm.

US - California Proposition 65 - Carcinogens & Reproductive Toxicity (CRT): Listed substance

Not listed.

US. Massachusetts RTK - Substance List

Vegetable Oil (CAS 8001-22-7) Listed.

US. New Jersey Worker and Community Right-to-Know Act

Not regulated.

US. Pennsylvania RTK - Hazardous Substances

Vegetable Oil (CAS 8001-22-7) Listed.

16. Other Information

Further information
HMIS® is a registered trade and service mark of the NPCA.

HMIS® ratings
Health: 1
Flammability: 1
Physical hazard: 0

NFPA ratings
Health: 1
Flammability: 1
Instability: 0

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