

# Safety Data Sheet

According to OSHA Hazard Communication Standard, 29 CFR 1910.1200

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## ENVIROTEMP™ FR3™ FLUID

### SECTION 1: Identification

#### Product identifier

**Product name:** ENVIROTEMP™ FR3™ FLUID

**Product code:** 100088941; 100089128; 100089127; 100089129;  
110013820; 110016511



#### Recommended use of the product and restriction on use

**Relevant identified uses:** Dielectric fluid

**Uses advised against:** Not determined or not applicable.

**Reasons why uses advised against:** Not determined or not applicable.

#### Manufacturer or supplier details

##### Manufacturer:

##### United States

Cargill, Incorporated  
Cargill Industrial Specialties  
13400 15th Avenue North  
Plymouth, MN 55441  
1-800-842-3631, 1-952-984-9122  
CIS\_CustomerService@Cargill.com

#### Emergency telephone number:

##### United States

##### ChemTel Inc

North America: 1-800-255-3924

International: 01-813-248-0585

### SECTION 2: Hazard(s) identification

**GHS classification:** Not a hazardous substance or mixture

#### Label elements

**Hazard pictograms:** None

**Signal word:** None

**Hazard statements:** None

**Precautionary statements:** None

**Hazards not otherwise classified:** None

### SECTION 3: Composition/information on ingredients

Identification	Name	Weight %
CAS number: 8001-22-7	Soybean Oil	>99

#### Additional Information:

\*This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)

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### SECTION 4: First aid measures

#### Description of first aid measures

##### General notes:

No special measures required

##### After inhalation:

If inhaled, remove to fresh air

Get medical advice if you feel unwell

##### After skin contact:

Wash with plenty of water / soap and rinse thoroughly

Get medical advice if skin irritation occurs or you feel unwell

##### After eye contact:

Rinse cautiously with water for several minutes

Remove contact lenses, if present and easy to do. Continue rinsing

If symptoms persist, consult a doctor

##### After swallowing:

Rinse mouth and do not induce vomiting

Get medical advice if you feel unwell or concerned

#### Most important symptoms and effects, both acute and delayed

##### Acute symptoms and effects:

Any additional important symptoms and effects are described in Section 11: Toxicological Information

##### Delayed symptoms and effects:

Not determined or not applicable.

#### Immediate medical attention and special treatment

##### Specific treatment:

Not determined or not applicable.

##### Notes for the doctor:

Not determined or not applicable.

### SECTION 5: Firefighting measures

#### Extinguishing media

##### Suitable extinguishing media:

Use Water (fog only), dry chemical, chemical foam, carbon dioxide, or alcohol-resistant foam

##### Unsuitable extinguishing media:

Do not use water as an extinguisher

#### Specific hazards during fire-fighting:

Thermal decomposition can lead to release of irritating gases and vapors

#### Special protective equipment for firefighters:

Use typical firefighting equipment, self-contained breathing apparatus, special tightly sealed suit

#### Special precautions:

Rags, steel wool, or waste contaminated with this product may spontaneously catch fire if improperly discarded

### SECTION 6: Accidental release measures

#### Personal precautions, protective equipment and emergency procedures:

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Spilled material may cause a slipping hazard. Use appropriate safety equipment

### Environmental precautions:

Should not be released into the environment  
Prevent from reaching drains, sewers, or waterways

### Methods and material for containment and cleaning up:

Large spills: Dike area to contain spill. Knock down and dilute vapors with water fog or spray. Collect with vacuum equipment or inert materials. Approach release upwind  
Small spills: Absorb with non-combustible liquid-binding material (sand, diatomaceous earth (clay), acid binders, universal binders). Remove with shovel. Collect in suitable and properly labeled containers  
Wash surfaces with aqueous cleaner and hot water. Used rags or other cleaning materials should be soaked with water and placed in a sealed container to prevent spontaneous combustion  
Dispose of contents / container in accordance with local regulations

### Reference to other sections:

Not determined or not applicable.

## SECTION 7: Handling and storage

### Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8).  
Avoid breathing mist or vapor. Use with adequate ventilation. Avoid repeated and prolonged skin contact. Wash thoroughly after handling. Remove contaminated clothing and wash before reuse.  
Surfaces of porous or fibrous materials saturated with this material can self-heat and auto ignite when exposed to air. Thin films of material on non-porous surfaces in contact with air will polymerize over time making it increasingly more difficult to clean.  
Immediately after use, place rags, steel wool, or waste in a sealed water-filled metal container.

### Conditions for safe storage, including any incompatibilities:

Protect material from extreme temperatures, humidity, and water prior to use. Store in labeled, tightly closed containers at 10-40° C (50-104° F) in dry, isolated and well-ventilated areas, away from sources of ignition and heat.

## SECTION 8: Exposure controls/personal protection

Only those substances with limit values have been included below.

### Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
United States (OSHA)	Vegetable oil mist	NA	OSHA PEL 15 mg/m <sup>3</sup> (Total); 5 mg/m <sup>3</sup> (Respirable fraction)
	Vegetable oil mists (except castor, cashew nut or similar irritant oils)	NA	California (OSHA) PEL 10 mg/m <sup>3</sup> (Total); 5 mg/m <sup>3</sup> (Respirable fraction)
NIOSH	Vegetable oil mist	NA	NIOSH REL 10-hr TWA 10 mg/m <sup>3</sup> (Total); 5 mg/m <sup>3</sup> (Respirable fraction)
ACGIH	Vegetable oil mists (except castor, cashew nut or similar irritant oils)	NA	ACGIH TLV TWA: 5 mg/m <sup>3</sup> (respirable fraction), 10 mg/m <sup>3</sup> (As 'Oil mist, mineral')

### Biological limit values:

No biological exposure limits noted for the ingredient(s).

### Information on monitoring procedures:

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Monitoring procedures should be chosen according to the indications set by national authorities or recognized standards.

### Appropriate engineering controls:

Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits (Occupational Exposure Limits-OELs) indicated above. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

### Personal protection equipment

#### Eye and face protection:

Safety glasses, goggles, or face shield recommended to protect eyes from mists or splashing.

#### Skin and body protection:

Wear protective clothing as necessary to minimize prolonged skin contact. Selection of specific items will depend on task

#### Respiratory protection:

Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. In misty atmospheres, use an approved particulate respirator.

### General hygienic measures:

Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin, eyes and clothing. Wash hands before breaks and at the end of work. Wash contaminated clothing before reusing.

## SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Appearance</b>	Light green liquid
<b>Odor</b>	Slight
<b>Odor threshold</b>	Not determined or not available.
<b>pH</b>	Not determined or not available.
<b>Melting point/freezing point</b>	Not determined or not available.
<b>Initial boiling point/range</b>	>360°C (>680°F)
<b>Flash point (closed cup)</b>	>265°C (Closed Cup)
<b>Evaporation rate</b>	Not determined or not available.
<b>Flammability (solid, gas)</b>	Not determined or not available.
<b>Upper flammability/explosive limit</b>	Not determined or not available.
<b>Lower flammability/explosive limit</b>	Not determined or not available.
<b>Vapor pressure</b>	< 1.3 Pa (<0.01 mmHg)
<b>Vapor density</b>	Not determined or not available.
<b>Density</b>	0.92 g/cm <sup>3</sup> (7.677 lbs./gal)
<b>Relative density</b>	Not determined or not available.
<b>Solubilities</b>	Insoluble.
<b>Partition coefficient (n-octanol/water)</b>	Not determined or not available.
<b>Auto/Self-ignition temperature</b>	401-404°C (ASTM E659)
<b>Decomposition temperature</b>	Not determined or not available.
<b>Dynamic viscosity</b>	Not determined or not available.

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<b>Kinematic viscosity</b>	33-35 mm <sup>2</sup> /s @ 40°C
<b>Explosive properties</b>	Not determined or not available.
<b>Oxidizing properties</b>	Not determined or not available.

### Other information

#### SECTION 10: Stability and reactivity

##### Reactivity:

Does not react under normal conditions of use and storage.

##### Chemical stability:

Stable under normal conditions.

##### Possibility of hazardous reactions:

None under normal conditions of use and storage.

##### Conditions to avoid:

To avoid thermal decomposition, avoid temperatures > 250C

##### Incompatible materials:

Strong oxidizing agents.

Strong alkali.

##### Hazardous decomposition products:

Carbon monoxide, carbon dioxide.

#### SECTION 11: Toxicological information

##### Acute toxicity

**Assessment:** Based on available data, the classification criteria are not met.

##### Product data:

Route	Result
Oral	LD50 > 5000 mg/kg bw (calculated)
Dermal	LD50 > 2000 mg/kg bw (calculated)
Inhalation	Acute inhalation toxicity data not available. At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous

**Substance data:** No data available.

##### Skin corrosion/irritation

**Assessment:** Based on available data, the classification criteria are not met.

##### Product data:

Not expected to cause irritation base on component or similar materials.

**Substance data:** No data available.

##### Serious eye damage/irritation

**Assessment:** Based on available data, the classification criteria are not met.

##### Product data:

Minimal irritation or no effect expected base on component or similar materials.

**Substance data:** No data available.

##### Respiratory or skin sensitization

**Assessment:** Based on available data, the classification criteria are not met.

##### Product data:

Not expected to be a skin sensitizer based on animal data for similar substances.

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**Substance data:** No data available.

### Carcinogenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:** No data available.

**Substance data:** No data available.

**International Agency for Research on Cancer (IARC):** None of the ingredients are listed.

**National Toxicology Program (NTP):** None of the ingredients are listed.

### Germ cell mutagenicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

Not expected to be a germ cell mutagen. In vitro and in vivo tests did not show mutagenic effects using similar materials.

**Substance data:** No data available.

### Reproductive toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

Not expected to be toxic to reproductive or developmental based on testing in rats for similar materials.

**Substance data:** No data available.

### Specific target organ toxicity (single exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

Not expected to cause organ damage from a single exposure.

**Substance data:** No data available.

### Specific target organ toxicity (repeated exposure)

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

Not expected to cause organ damage from prolonged or repeated exposure based on animal studies for similar materials.

**Substance data:** No data available.

### Aspiration toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

No data available.

**Substance data:** No data available.

### Information on likely routes of exposure:

No data available.

### Symptoms related to the physical, chemical and toxicological characteristics:

No data available.

### Other information:

No data available.

## SECTION 12: Ecological information

### Acute (short-term) toxicity

**Assessment:** Based on available data, the classification criteria are not met.

**Product data:**

Fish	This product is not expected to be harmful to aquatic organisms.
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**Substance data:** No data available.

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### Chronic (long-term) toxicity

**Product data:** No data available.

**Substance data:** No data available.

### Persistence and degradability

**Product data:**

Readily biodegradable

**Substance data:** No data available.

### Bioaccumulative potential

**Product data:**

Not expected to bioaccumulate based on testing of similar substance in fish.

**Substance data:** No data available.

### Mobility in soil

**Product data:**

Product has low mobility in soil.

**Substance data:** No data available.

**Other adverse effects:** No data available.

## SECTION 13: Disposal considerations

### Disposal methods:

It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory agencies Product and packaging must be disposed of in accordance with relevant national and local regulations. May be incinerated. Unopened product may be returned for reclamation

## SECTION 14: Transport information

### United States Transportation of dangerous goods (49 CFR DOT)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Maritime Dangerous Goods (IMDG)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None
Packing group	None
Environmental hazards	None
Special precautions for user	None

### International Air Transport Association Dangerous Goods Regulations (IATA-DGR)

UN number	Not Regulated
UN proper shipping name	Not Regulated
UN transport hazard class(es)	None

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Packing group	None
Environmental hazards	None
Special precautions for user	None

## SECTION 15: Regulatory information

### United States regulations

**Inventory listing (TSCA):** All ingredients are listed.

**Significant New Use Rule (TSCA Section 5):** Not applicable.

**Export notification under TSCA Section 12(b):** Not applicable.

**SARA Section 302 extremely hazardous substances:** Not listed.

**SARA Section 313 toxic chemicals:** Not listed.

**CERCLA:** Not listed.

**RCRA:** See Section 13.

**Section 112(r) of the Clean Air Act (CAA):** Not listed.

**Massachusetts Right to Know:** Not listed.

**New Jersey Right to Know:** Not listed.

**New York Right to Know:**

NA	Vegetable oil >5%	Listed
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**Pennsylvania Right to Know:**

8001-22-7	Soybean Oil	Listed
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**California Proposition 65:** Not listed.

## SECTION 16: Other information

**Abbreviations and Acronyms:** None

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**End of Safety Data Sheet**