

According to Regulation (EC) No. 1272/2008 (CLP) and (EC) No. 1907/2006 (REACH)

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FR3® Fluid

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Product Name: FR3® Fluid

Product code: 100088941, 100089128, 100089127, 100089129,

110013820, 110016511

1.2 Relevant identified uses of the substance or mixture and uses advised against

Relevant identified uses: Dielectric coolant

Uses advised against: Not determined or not applicable.

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

1.3 Details of the manufacturer/supplier of the safety data sheet

Manufacturer: Cargill Bioindustrial

Cargill NV Bedrijvenlaan 9 Mechelen, Belgium 2800 +32 (0) 15 400 411

1.4 Emergency telephone number:

ChemTel Inc 1-800-255-3924 (North America) 01-813-248-0585 (International)

SECTION 2: Hazard(s) identification

2.1 Classification of the substance or mixture:

Classification according to Regulation (EC) No. 1272/2008 (CLP): The substance is not classified as hazardous according to the Globally Harmonized System (GHS).

nazardous according to the Globally Harrionized System (GHS)

Hazard-determining components of labeling: None

Additional Information: None

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictograms: None

Signal word: None

Hazard statements: None **Precautionary statements:** None

2.3 Other hazards: None known

SECTION 3: Composition/information on ingredients

3.1 Substance: Not applicable.

3.2 Mixture:

140	REACH Registration No.	according to Regulation (EC) No.	Weight %
		1272/2008 (CLP)	

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CAS number: 8001-22-7		Soybean Oil	Not classified	>99
EC number:	-			
232-274-4				

Additional information: None

Full Text of H and EUH statements: See section 16

SECTION 4: First aid measures

4.1 Description of first aid measures

General notes:

First responders should wear gloves and other self-protection when performing treatment.

Following inhalation:

Get medical advice if you feel unwell.

If inhaled, remove to fresh air.

Following skin contact:

Wash with plenty of water / soap and rinse thoroughly.

Get medical advice if skin irritation occurs or if you feel unwell.

Following eye contact:

Rinse cautiously with water for several minutes.

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

Get medical advice/attention.

Following ingestion:

Rinse mouth and do not induce vomiting.

Get medical advice if you feel unwell or concerned.

Self-Protection of the first aider:

See Section 8.2

4.2 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 available.

4.3 Indication of any immediate medical attention and special treatment needed

Specific treatment:

Not determined or not available.

Notes for the doctor:

Not determined or not available

SECTION 5: Firefighting measures

5.1 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 stream as an extinguisher.

5.2 Special hazards arising from the substance or mixture:

Thermal decomposition can lead to release of irritating gases and vapors.

5.3 Advice for firefighters

Personal protection equipment:

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

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Special precautions:

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

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation.

Ensure air handling systems are operational.

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

Wear protective eye wear, gloves and clothing.

6.2 Environmental precautions:

Should not be released into the environment.

Prevent from reaching drains, sewer, or waterway.

6.3 Methods and material for containment and cleaning up:

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.

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.

Wear protective eye wear, gloves and clothing.

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.

6.4 Reference to other sections:

Not determined or not applicable.

SECTION 7: Handling and storage

7.1 Precautions for safe handling:

Use appropriate personal protective equipment (see Section 8).

Used rags or other cleaning materials should be soaked with water and placed in a sealed container to prevent spontaneous combustion.

Wash thoroughly after handling.

Use only with adequate ventilation.

Avoid breathing mist or vapor.

Do not eat, drink, smoke or use personal products when handling chemical substances.

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

7.2 Conditions for safe storage, including any incompatibilities:

Store in a cool, well-ventilated area.

Protect from freezing and physical damage.

Keep container tightly sealed.

Protect material from extreme temperatures, humidity, and water prior to use. Recommend storage temperatures at $10 - 40^{\circ}$ C ($50 - 104^{\circ}$ F).

7.3 Specific end use(s):

Not determined or not applicable.

SECTION 8: Exposure controls/personal protection

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8.1 Control parameters

Only those substances with limit values have been included below.

Occupational Exposure limit values:

Country (Legal Basis)	Substance	Identifier	Permissible concentration
Czech Republic	Soybean Oil	8001-22-7	8-Hour TWA: 2 mg/m³ (Vegetable dusts: spices)
Lithuania	Soybean Oil	8001-22-7	8-Hour TWA: 1 mg/m³ (Oil mist, including smoke)
	Soybean Oil	8001-22-7	15-Minute STEL: 3 mg/m³ (Oil mist, including smoke)
Belgium	Soybean Oil	8001-22-7	8-Hour TWA: 10 mg/m³ (Vegetable oils (mist))

Biological limit values:

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

Derived No Effect Level (DNEL):

Not determined or not applicable.

Predicted No Effect Concentration (PNEC):

Not determined or not applicable.

Information on monitoring procedures:

Biological monitoring may also be appropriate for some substances.

8.2 Exposure controls

Appropriate engineering controls:

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of use or handling.

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.

Personal protection equipment

Eye and face protection:

Safety goggles or glasses, or appropriate eye protection.

Skin and body protection:

Select glove material impermeable and resistant to the substance.

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

Suitable glove barrier materials include: Nitrile/butadiene rubber ("nitrile" or "NBR"); 0.11 mm coating thickness, permeation level 6, >480 minutes breakthrough time.

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.

Suitable respiratory protection used for aerosol/mist formation: Organic vapour cartridge, filter type A (brown for organic gases and vapours with a boiling point of > 65 °C).

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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 reuse.

Environmental exposure controls:

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

Product (substance / mixture) related measures to prevent exposure:	Select controls based on risk assessment of local conditions.
Instruction measures to prevent exposure:	See Section 6 for information on accidental release measures.
Organisational measures to prevent exposure:	Not determined or not applicable.
Technical measures to prevent exposure:	Not determined or not applicable.

Risk management measures to control exposure:

Not determined or not applicable.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Liquid, light green	
Slight	
Not determined or not available.	
Not determined or not available.	
Not determined or not available.	
>360°C (>680°F)	
>265°C / 510°F PMCC (ASTM D93 or ISO 2719)	
Not determined or not available.	
<1.3 Pa (<0.01 mmHg)	
Not determined or not available.	
0.92 gm/cm³ (7.677 lb/gal)	
Not determined or not available.	
Insoluble	
Not determined or not available.	
401-404°C (ASTM E659)	
Not determined or not available.	
Not determined or not available.	
33-35 mm²/s	
Not determined or not available.	
Not determined or not available.	

9.2 Other information

SECTION 10: Stability and reactivity

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10.1 Reactivity:

Does not react under normal conditions of use and storage.

10.2 Chemical stability:

Stable under normal conditions of use and storage.

10.3 Possibility of hazardous reactions:

None under normal conditions of use and storage.

10.4 Conditions to avoid:

To avoid thermal decomposition, avoid temperatures >250 °C.

10.5 Incompatible materials:

Strong oxidizing agents.

Strong alkali.

10.6 Hazardous decomposition products:

Carbon monoxide, carbon dioxide.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

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

Product data:

Route	Result
Oral	LD50 Rat: >5000 mg/kg
Dermal	LD50 Rabbit: >2000 mg/kg

Substance data: No data available.

Skin corrosion/irritation

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

Product data:

Based on data for similar materials or components: not expected to cause irritation.

Substance data: No data available.

Serious eye damage/irritation

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

Product data:

Based on data for similar materials or components may be slightly irritating, but not sufficient for classification.

Substance data: No data available. **Respiratory or skin sensitization**

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

Product data:

For Skin Sensitization: Not expected to be a skin sensitizer based on animal data for components or similar substances.

For Respiratory Sensitization: No relative data found.

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.

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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 tests with similar materials were negative for

mutagenic effects.

Substance data: No data available.

Reproductive Toxicity

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

Product data:

Not expected to cause toxic reproductive or developmental effects based on testing in animals with similar substances.

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 based on acute toxicity data for components or similar substances.

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 a single exposure based on acute toxicity data for components or similar substances.

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:

Acute inhalation data not available. At room temperature, exposure to vapor is minimal due to low volatility; single exposure is not likely to be hazardous.

SECTION 12: Ecological information

12.1 Toxicity

Acute (short-term) toxicity

Assessment:

This product is not expected to be harmful to aquatic organisms.

Product data: No data available. **Substance data:** No data available.

Chronic (long-term) toxicity

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

Product data: No data available. **Substance data:** No data available.

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12.2 Persistence and degradability

Product data:

Readily biodegradable

Substance data: No data available.

12.3 Bioaccumulative potential

Product data:

Based on component or similar material, not expected to bioaccumulate.

Substance data: No data available.

12.4 Mobility in soil

Product data:

Product has low mobility in soil. **Substance data:** No data available.

12.5 Results of PBT and vPvB assessment

Product data:

PBT assessment:

This product does not contain any substances above regulatory requirements that are assessed to be a PBT.

vPvB assessment:

This product does not contain any substances above regulatory requirements that are assessed to be a vPvB.

Substance data:

PBT assessment: This product does not contain any substances that are assessed to be a PBT. **vPvB assessment:** This product does not contain any substances that are assessed to be a vPvB.

12.6 Other adverse effects: No data available.

12.7 Hazard to the ozone layer

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

Product data: No data available.

Substance data: No data available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

13.1.1 Product / Packaging disposal: Not determined or not available.

Waste codes / waste designations according to LoW: Not determined or not available.

- **13.1.2** Waste treatment-relevant information: Not determined or not available.
- **13.1.3** Sewage disposal-relevant information: Not determined or not available.
- **13.1.4 Other disposal recommendations:** It is the responsibility of the waste generator to properly characterize all waste materials according to applicable regulatory entities

SECTION 14: Transport information

International Carriage of Dangerous Goods by Road/Rail (ADR/RID)

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

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International Carriage of Dangerous Goods by Inland Waterways (ADN)

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
Packing group	None
Environmental hazards	None
Special precautions for user	None

Transport in bulk according to Annex II of MARPOL and the IBC Code		
Bulk Name None		
Ship type	None	
Pollution category	None	

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture.

European regulations

Inventory listing (EINECS): All ingredients are listed or exempt. **REACH SVHC candidate list:** None of the ingredients are listed. **REACH SVHC Authorizations:** None of the ingredients are listed.

REACH Restriction: None of the ingredients are listed.

Water hazard class (WGK) (Substance):

Ingredient Name	CAS	Class
Soybean Oil	8001-22-7	Non-hazardous to water

Other regulations

Germany TA Luft: None of the ingredients are listed.

15.2 Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

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SECTION 16: Other information

Abbreviations and Acronyms: None **Disclaimer:**

This product has been classified in accordance with EC No. 1272/2008 (CLP) and EC No. 1907/2006 (REACH). The information provided in this SDS is correct, to the best of our knowledge, based on information available. The information given is designed only as a guidance for safe handling, use, storage, transportation and disposal and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials, unless specified in the text. The responsibility to provide a safe workplace remains with the user.

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End of Safety Data Sheet