

Safety Data Sheet

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

1.1 Product identifier

Fluo-Break

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

Laboratory Chemical

1.3 Details of the supplier of the safety data sheet

Emulseo
Parc AMPeRIS, Bâtiment BAYA, 8 rue Adrienne Bolland
33600 Pessac
France
contact@emulseo.com

1.4 Emergency telephone number

In case of emergency: +33(0) 535 541 006

Section 2: Hazards identification

2.1 Classification of the substances or mixture

Classification according to Regulation (EC) No 1272/2008 as amended

Skin irritation (Category 2), H315

Eye irritation (Category 2), H319

Specific target organ toxicity – single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

2.2 Label elements

Label according to Regulation (EC) No. 1272/2008 as amended

Hazard pictograms



Signal word Warning

Hazard statements

H315 Causes skin irritation.

H319 Cause serious eye irritation.

H335 May cause respiratory irritation.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash skin thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/eye protection/face protection.

P302 + P352 IF ON SKIN: Wash with plenty of water.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Supplemental Hazard Statements

None.

Reduced Labeling (<= 125 mL)
Hazard pictograms



Signal word Warning
Hazard statements None
Precautionary statements None
Supplemental Hazard Statements None

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Section 3: Composition

3.1 Substances

Synonyms: 3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluoro-1-octanol or 1H,1H,2H,2H-Perfluoro-1-octanol.

Formula: $C_8H_5F_{13}O$

Molecular weight: 364.10 g/mol

CAS-No: 647-42-7

EC-No: 211-477-1

Component	Classification	Concentration
3,3,4,4,5,5,6,6,7,7,8,8,8-Tridecafluoro-1-octanol		
CAS No: 647-42-7 EC No: 211-477-1	Skin Irrit. 2; Eye Irrit. 2; STOT SE 3 ; H315 ; H319 ; H335	<= 100%

For the full text of H-Statements mentioned in this Section, see Section 16.

Section 4: First aid measures

4.1 Description of the first aid measures

General advice Show this material safety data sheet to the doctor in attendance

If inhaled After inhalation: fresh air

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/shower

In case of eye contact: Rinse out with plenty of water. Call in ophthalmologist. Remove contact lenses

If swallowed: immediately make victim drink water (two glasses at most). Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatments needed

No data available.

Section 5: Firefight measures

5.1 Extinguishing media

Suitable extinguishing media

Water Foam Carbon dioxide (CO₂) Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from substances or mixture

Carbon oxides

Hydrogen fluoride

Combustible.

Vapors are heavier than air and may spread along floors.

Forms explosive mixtures with air on intense heating.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for fire fighters

Stay in danger area only with self-contained breathing apparatus. Prevent skin contact by keeping a safe distance or by wearing protective clothing.

5.4 Further information

Remove container from danger zone and cool with water. Suppress (knock down) gases/vapors/mists with water spray jet. Prevent fire extinguishing water from contaminating surface water or ground water system.

Section 6: Accidental releases measures

6.1 Personal precautions, precaution equipment and emergency procedures

Advice for non-emergency personnel: Do not breathe vapors, aerosols. Avoid substance contact. Ensure adequate ventilation. Keep away from heat and sources of ignition. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and clearing up

Cover drains. Collect, bind, and pump off spills. Observe material restrictions (see section 7 and 10). Take up with liquid-absorbent material (e.g. Chemizorb®). Dispose of properly. Clean up affected area.

6.4 References to other sections

For disposal see section 13.

Section 7: Handling and storage

7.1 Precautions for safe handling

Advise on protection against fire and explosion

Keep away from open flames, hot surfaces and sources of ignition. Take precautionary measures against static discharge.

Hygiene measures

Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with substance.

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed.

Storage class

Storage class (TRGS 510): 10: Combustible liquids

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

Section 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

8.2 Exposure controls

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU). Safety glasses

Skin protection

Required.

Body protection

Protective clothing.

Respiratory protection

Required when vapours/aerosols are generated. Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

Control of environmental exposure

Do not let product enter drains.

Section 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance Form: clear, liquid.

Colour light yellow.

Odour No data available.

Odour threshold No data available.

pH No data available.

Melting point/freezing No data available.

Initial boiling point and boiling range 88 – 95°C at 37 hPa – lit.

Flash point 91°C – closed cup.

Evaporation rate No data available.

Flammability (solid, gas) No data available.

Upper/lower flammability or explosive limits No data available.

Vapour pressure No data available.

Vapour density No data available.

Relative density 1.651 g/cm³ at 25°C – lit.

Solubility(ies) No data available.

Partition coefficient (n-octanol/water) No data available.

Auto-ignition temperature No data available.

Decomposition temperature No data available.

Viscosity No data available.

Explosive properties No data available.

Oxidizing properties No data available.

9.2 Other information

No data available.

Section 10: Stability and reactivity

10.1 Reactivity

Forms explosive mixtures with air on intense heating

A range from approx. 15 Kelvin below the flash point is to be rated as critical.

10.2 Chemical Stability

The product is chemically stable under standard ambient conditions (room temperature).

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Strong heating.

10.5 Incompatible materials

Strong oxidizing agents.

10.6 Hazardous decomposition products

In event of fire: see section 5.

Section 11: Toxicology information

11.1 Information on toxicological effects

Acute toxicity

Oral: No data available.

Inhalation: No data available.

Dermal: No data available.

Skin corrosion/irritation

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitization

No data available.

Germ cell mutagenicity

No data available.

Carcinogenicity

No data available.

Reproductive toxicity

No data available.

Specific target organ toxicity - single exposure

Inhalation - may cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

11.2 Additional Information

Endocrine disrupting properties

Product:

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57 (f) or Commission Delegated regulation (EU° 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Section 12: Ecological information

12.1 Toxicity

No data available.

12.2 Persistence and degradability

No data available.

12.3 Bioaccumulative potential

No data available.

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance/mixture contains no components considered to be either persistent, bioaccumulative or toxic (PBT), or very persistent and very bioaccumulative (vPvB) at level of 0.1% or higher.

12.6 Endocrine disrupting properties

Product:

Assessment: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57 (f) or Commission Delegated regulation (EU° 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

12.7 Other adverse effects

No data available.

Section 13: Disposal consideration

13.1 Waste treatment methods

Product:

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

Section 14: Transport information

14.1. UN number

ADR/RID: -

IMDG: -

IATA: -

14.2. UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

14.3. Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA: -

14.4. Packing group

ADR/RID: -

IMDG: -

IATA: -

14.5. Environmental hazards

ADR/RID: no

IMDG: Marine pollutant: no

IATA: no

14.6. Special precautions for user

No data available

Section 15: Regulatory information

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

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

Other regulations

Take note of Dir. 94/33/EC on the protection of young people at work.

15.2 Chemical safety assessment

For this product a chemical safety assessment was not carried out.

Section 16: Other information

Full text of any statements or R-phrases and H-statements under Sections 2 and 3

H315: Causes skin irritation.

H319: Causes serious eye irritation.

H335: May cause respiratory irritation.

Disclaimer

The information contained in this data sheet is based on present scientific and technical knowledge. The purpose of this information is to draw attention to the health and safety aspects concerning the products supplied by Emulseo, and to recommend precautionary measures for the storage and handling of the products. No liability can be accepted for any failure to observe the precautionary measures described in this data sheet or for any misuse of the products.