

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY/UNDERTAKING

1.1 Product identifier

Product name	IoLiTherm 3283 Fluorinated electronic fluid
Product code	IoLiTherm 3283
CAS	338-83-0
EC-Number	206-420-2
REACH No.	A registration number is not available for this substance as the substance or its uses are exempted from registration, the annual tonnage does not require a registration or the registration is envisaged for a later registration deadline.

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

Identified uses	Laboratory chemicals, Manufacture of substances
Restriction on use	Medical and pharmaceutical products, not for human or veterinary use.

1.3 Details of the supplier of the safety data sheet

Supplier	IoLiTec Ionic Liquids Technologies GmbH Im Zukunftspark 9 D – 74076 Heilbronn Germany
Telephone	+49 (0)7131-89839-0
Fax	+49 (0)7131-89839-109
Email	msds@iolitec.de

1.4 Emergency telephone number

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

Emergency telephone +49 (0)151-41255671

2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008)

This material is not classified as hazardous according to Regulation (EC) No. 1272/2008, as amended, on classification, labelling, and packaging of substances and mixtures. For laboratory/industrial use only!

2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008)

Signal word Not applicable.

Symbols Not applicable.

Pictogram Not applicable.

Precautionary statements

P phrases

P202 Do not handle until all safety precautions have been read and understood.

P262: Do not get in eyes, on skin, or on clothing.

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

P273 Avoid release to the environment.

P280: Wear protective gloves/ protective clothing/ eye protection/ face protection.

P308 + P313 IF exposed or concerned: Get medical advice/ attention.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

Supplemental Hazard Statements

EUH441 Strongly accumulates in the environment and living organisms including in humans.

2.3 Other hazards

This substance is classified as very persistent and very bioaccumulative (vPvB) and is a substance on the Candidate List (SVHC) under Article 57(e) (very persistent and very bioaccumulative (vPvB)). See section 12.

Ecological information:

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.

Toxicological information:

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.

3 COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Tris(1,1,2,2,3,3,3-heptafluoropropyl)amine

CAS: 338-83-0

Ingredient name	Contents	Classification
Perfluorotripropylamine	> 99%	Not classified.

The substance is classified as vPvB (very persistent and very bioaccumulative).

The substance is on the Candidate List (SVHC) under Article 57e.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

4 FIRST AID MEASURES

4.1 Description of first aid measures

General

Contaminated clothing should be removed and washed before being reused.

Inhalation

Move the exposed person to fresh air at once. If respiratory problems, provide artificial respiration/ oxygen.

Ingestion

Immediately rinse mouth and provide fresh air. Do not induce vomiting. Get medical attention immediately.

Skin

Wash the skin immediately with soap and water.

Eyes

Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

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 treatment needed

No data available.

5 FIRE FIGHTING MEASURES

5.1 Extinguishing media

Use: Water spray, fog or mist. Carbon dioxides (CO₂). Dry chemicals, sand, dolomite etc.

5.2. Special hazards arising from the substance or mixture

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

Fire causes formation of toxic gases.

5.3. Advice for firefighters

Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

6 ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

Wear protective clothing and avoid inhalation of vapor, skin or eye contact. Evacuate the danger area, observe emergency procedures.

6.2 Environmental precautions

Avoid washing into water courses. Avoid contaminating public drains or water supply.

6.3 Methods and materials for containment and cleaning up

Avoid contact with skin or inhalation of spillage, dust or vapor. Avoid dust formation. Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

6.4 Reference to other sections

For disposal see section 13.

7 HANDLING AND STORAGE

7.1 Precautions for safe handling

Keep away from heat, sparks and open flame. Do not use in confined spaces without adequate ventilation and/or respirator.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store at moderate temperatures in dry, well-ventilated area. Chemical storage.

Storage class

Storage class (TRGS 510): LGK 10-13

7.3 Specific end use(s)

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

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

8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 Control parameters

Ingredients with workplace control parameters.

8.2 Exposure controls

Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

Skin protection

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

Body Protection

Impervious clothing. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

Respiratory protection

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator. For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

a) Physical state	Liquid.
b) Color	Colorless.
c) Odor	Odorless
d) Melting point/freezing point	no data available
e) Initial boiling point	128°C
f) Flammability	non flammable
g) Upper/lower explosive limits	no data available
h) Flash point	No flash point
i) Autoignition temperature	no data available
j) Decomposition temperature	no data available
k) pH	no data available
l) Kinematic viscosity	0.78 mm ² /s
m) Water solubility	no data available
n) Partition coefficient	no data available
o) Vapor pressure	13 mmHg
p) Density	1.82 g/mL
q) Relative vapor density	no data available
r) Particle characteristics	no data available
s) Explosive properties	no data available
t) Oxidizing properties	no data available

9.2 Other safety information

No data available.

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

10 STABILITY AND REACTIVITY

10.1 Reactivity

No data available.

10.2 Chemical stability

No particular stability concerns.

10.3 Possibility of hazardous reactions

No data available.

10.4 Conditions to avoid

Heat.

10.5 Incompatible materials

Finely divided active metals; Alkali and alkaline earth metals.

10.6 Hazardous decomposition products

Hazardous decomposition products formed under fire conditions. – Hydrogen Fluoride (HF); Perfluoroisobutylene (PFTIB).

11 TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes

Acute toxicity

Dermal LD50 > 5000 mg/kg

Inhalation-Vapor (rat) LC50 > 120 mg/L

Ingestion (rat) LD50 > 5000 mg/kg

Skin corrosion/irritation

Data conclusive, but not sufficient for classification.

Serious eye damage/eye irritation

Data conclusive, but not sufficient for classification.

Respiratory or skin sensitization

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

Data conclusive, but not sufficient for classification.

Germ cell mutagenicity

No data available.

Carcinogenicity

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

Not classified (NOAEL 1000 mg/kg/day).

Specific target organ toxicity - single exposure

Data conclusive, but not sufficient for classification.

Specific target organ toxicity - repeated exposure

Data conclusive, but not sufficient for classification.

Aspiration hazard

No data available.

11.2 Information on other hazards

Potential health effects

Inhalation no data available.

Ingestion no data available.

Skin no data available.

Eyes no data available.

Signs and Symptoms of Exposure

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

Additional Information

RTECS: Not available.

12 ECOLOGICAL INFORMATION

12.1 Toxicity

Data conclusive, but not sufficient for classification.

12.2 Persistence and degradability

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

Very persistent (vP).

12.3 Bioaccumulative potential

Very bioaccumulative (vB).

12.4 Mobility in soil

No data available.

12.5 Results of PBT and vPvB assessment

This substance is classified as very persistent and very bioaccumulative (vPvB) and is a substance on the Candidate List (SVHC) under Article 57(e) (very persistent and very bioaccumulative (vPvB)).

12.6 Other adverse effects

May be harmful to aquatic life.

13 DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Contact specialist disposal companies. Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical. Do not dispose in communal waste water.

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 Packaging group

Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

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.

15 REGULATORY INFORMATION

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

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

15.2 Chemical safety assessment

The substance is classified as vPvB (very persistent and very bioaccumulative) (Annex XIII of Regulation (EC) 1907/2006) and is a substance on the Candidate List (SVHC) under Article 57(e) (very persistent and very bioaccumulative (vPvB)).

Country specific information

Germany

WGK: 3

(Self-Classification)

16 OTHER INFORMATION

DISCLAIMER

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Safety Data Sheet

according to Regulation (EC) No 1907/2006

IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date: 2/06/2025

Version: 2

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