

according to Regulation (EC) No 1907/2006 IoLiTherm 3283 – Fluorinated electronic fluid

Revision Date:	7/17/2023
Date Issued:	12/5/2023

Version: 1

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
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	e 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	per
Emergency telephone	+49 (0)151-41255671



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2 HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture Classification (REGULTATION (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	
P262	Do not get in eyes, on skin, or on clothing
P280	Wear protective gloves/ protective clothing/ eye protection/ face protection.
P303+P361+P353	IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water.
P305 + P351 + P338	IF IN EYES: Rinse continuously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P313	Get medical advice/attention.



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Supplemental Hazard Statements

EUH441

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

2.3 Other hazards

This substance/mixture contains components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher. See section 12.

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 mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative).

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.



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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

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



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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

Store at moderate temperatures in dry, well-ventilated area. Store away from heat. Use chemical storage.

7.3 Specific end use(s)

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



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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).

9 PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Appearance	Liquid.
Color	Colorless.
Odor/taste	Odorless
Boiling Point	128°C
Flash Point	No flash point
Vapor pressure	13 mmHg (@25°C)
Vapor density	1.44 kPa
Density	1.82 g/mL
Viscosity	1.4 cP (@25°C)
9.2 Other safety information	
No data available.	



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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

No data available.

Serious eye damage/eye irritation

No data available.

Respiratory or skin sensitization



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No data available.

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

Inhalation - May cause respiratory irritation.

Specific target organ toxicity - repeated exposure

No data available.

Aspiration hazard

No data available.

11.2 Information on other hazards

Potential health effects

Inhalation May be harmful if inhaled. Causes respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. Causes skin irritation.

Eyes Causes serious eye irritation.

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

No data available.



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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 components considered to be very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

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.

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		



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on: 1		
-		
no		
14.6 Special precautions for user		

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 mixture contains a substance that was identified as vPvB (very persistent and very bioaccumulative) (Annex XIII of Regulation (EC) 1907/2006)

Country specific information		
Germany	WGK: 3	(Self-Classification)

16 OTHER INFORMATION

DISCLAIMER

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