

# Safety Data Sheet

IOLILYTE LBE-02(35)0-50

Revision Date: 9/22/2017

Date Issued: 2/15/2018

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

<b>Product name</b>	IOLILYTE LBE-02(35)0-50
<b>Product code</b>	IOLILYTE LBE-02(35)0-50
<b>CAS</b>	n/a
<b>REACH No.</b>	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.
<b>Identified uses</b>	Laboratory chemicals, Manufacture of substances
<b>Supplier</b>	IoLiTec Ionic Liquids Technologies GmbH Salzstrasse 184 D – 74076 Heilbronn Germany
<b>Telephone</b>	+49 (0)7131-89839-0
<b>Fax</b>	+49 (0)7131-89839-109
<b>Emergency telephone</b>	+49 (0) 176 84850874
<b>Email</b>	msds@iolitec.de

## 2 HAZARDS IDENTIFICATION

### 2.1 Classification of the substance or mixture

#### Classification (REGULTATION (EC) No 1272/2008)

Flammable liquids (Category 3), H226

Acute toxicity (Category 4) (oral), H302

Skin corrosion (Category 1B), H314

Eye Dam./Irrit. (Category 1), H314

Specific target organ toxicity - repeated exposure (Category 2), H372, H373

# Safety Data Sheet

IOLILYTE LBE-02(35)0-50

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## 2.2 Label elements

### Labelling (REGULATION (EC) No 1272/2008)

Pictogram



Signal word

**Danger**

Hazard statement(s)

H226

Flammable liquid and vapor

H302

Harmful if swallowed

H372

Causes damage to organs through prolonged or repeated exposure

H373

May cause damage to organs through prolonged or repeated exposure

H314

Causes severe skin burns and eye damage.

H402

Harmful to aquatic life.

Precautionary statement(s)

P210

Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P280

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

P260

Do not breathe dust/fumes/gas/mist/vapours/spray.

P243

Take precautionary measures against static discharge.

P241

Use explosion-proof electrical/ventilating equipment

P270

Do not eat, drink or smoke when using this product.

P264

Wash with water and soap thoroughly after handling.

P233

Keep container tightly closed.

# Safety Data Sheet

## IOLILYTE LBE-02(35)0-50

Revision Date: 9/22/2017

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P240	Ground/bond container and receiving equipment.
P242	Use only non-sparking tools.
P305+351+338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do – continue rinsing.
P310	Immediately call a physician.
P303+361+353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.
P304+340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P301+330+331	IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.
P370+378	In case of fire: Use powder, foam or CO <sub>2</sub> to extinguish.
P405	Store locked up.
P403+235	Store in a well ventilated place. Keep cool.
P501	Dispose of contents/container to hazardous/special waste.

Supplemental Hazard Statements none

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

#### Mixtures

Synonyms : 1M LiPF<sub>6</sub> in EC/DEC (50:50)

Formula : LiPF<sub>6</sub>

# Safety Data Sheet

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## 4 FIRST AID MEASURES

<b>General</b>	Contaminated clothing should be removed and washed before being reused.
<b>Inhalation</b>	Move the exposed person to fresh air. Immediately administer a corticosteroid. Get medical attention.
<b>Ingestion</b>	Immediately rinse mouth and drink 200-300 ml of water. Do not induce vomiting. Get medical attention immediately.
<b>Skin</b>	Wash the skin immediately with soap and water. Get medical attention.
<b>Eyes</b>	Promptly wash eyes with plenty of water while lifting the eye lids. Continue to rinse for at least 15 minutes. Get medical attention immediately.

## 5 FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Use: Carbon dioxides (CO <sub>2</sub> ). Foam. Dry chemicals, sand, dolomite etc.
<b>Special fire-fighting procedures</b>	Do not use water. Keep away from water. Forms flammable mixtures with air. Vapors might accumulate in low area.
<b>Unusual fire &amp; explosion hazards</b>	Fire causes formation of toxic gases, fluorinated compounds, phosphorous oxides.
<b>Protective measures in fire</b>	Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

# Safety Data Sheet

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## 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions during spill</b>	Wear protective clothing and avoid inhalation of vapor, skin or eye contact. Avoid all sources of ignition (heat, sparks, open flame).
<b>Precautions to protect environment</b>	Avoid washing into water courses. Avoid contaminating public drains or water supply.
<b>Spill clean-up methods</b>	Avoid contact with skin or inhalation of spillage, dust or vapour. Collect with inert absorbent (sand etc.) and reclaim or dispose in sealed containers in license waste. Use spark-proof tools and explosion-proof equipment. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate. Avoid contact with water. Neutralize with lime.

## 7 HANDLING AND STORAGE

<b>Usage precautions</b>	Keep away from heat, sparks and open flame..
<b>Storage precautions</b>	Store in sealed containers under nitrogen. Store at moderate temperatures in dry, well ventilated area. Store away from peroxides, flammable solids, toxic materials. Protect from temperatures over 40 °C.
<b>Storage criteria</b>	Chemical storage.

## 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Personal protective equipment**  
Eye/face protection

# Safety Data Sheet

## IOLILYTE LBE-02(35)0-50

Revision Date: 9/22/2017

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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.

### 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

Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	solution.
<b>Color</b>	Colorless.
<b>Odor/taste</b>	Of the solvent contained in the item.
<b>Melting point</b>	-20 °C
<b>Boiling point</b>	approx.. 100 °C (solvent boiling point)
<b>Flash point</b>	36 °C
<b>Flammability</b>	Flammable
<b>Autoignition</b>	n/a
<b>Density</b>	1.22 (20°C)

## 10 STABILITY AND REACTIVITY

<b>Stability</b>	No particular stability concerns, if stored properly.
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# Safety Data Sheet

**IOLILYTE LBE-02(35)0-50**

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## Conditions to avoid

Avoid contact to water, alcohols, oxidizers and acids, bases Avoid contact with air. Avoid all ignition sources.

## Hazardous

### Decomposition Products

High temperatures generate: Corrosive gases/vapor/fumes of: Carbon dioxide (CO<sub>2</sub>). Carbon monoxide (CO). Phosphorous oxides (PxOy). Hydrogen fluoride (HF) and fluorinated compounds.

## 11 TOXICOLOGICAL INFORMATION

### Ingestion

toxic if swallowed.

### Skin

Highly corrosive. Damages skin.

### Eyes

Highly corrosive. Damages skin.

### Chronic toxicity

Overexposure might cause kidney damage. Long-term exposure can cause calcification and embrittlement of bones, tooth and increased calcification in ligament.

**The product has not been tested. The statement has been derived from the properties of individual components.**

## 12 ECOLOGICAL INFORMATION

### Environmental hazards

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

# Safety Data Sheet

IOLILYTE LBE-02(35)0-50

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## 13 DISPOSAL CONSIDERATIONS

### Disposal method

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: 2920 IMDG: 2920 IATA: 2920

### 14.2 UN proper shipping name

CORROSIVE LIQUID, FLAMMABLE, N.O.S. (contains LITHIUM HEXAFLUOROPHOSPHATE, DIETHYL CARBONATE

### 14.3 Transport hazard class(es)

ADR/RID: 8 (3) IMDG: 8 (3) IATA: 8 (3)

### 14.4 Packaging group

ADR/RID: II IMDG: II IATA: II

### 14.5 Environmental hazards

IMDG Marine pollutant: no

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## 15 REGULATORY INFORMATION

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

### Chemical Safety Assessment

For this product a chemical safety assessment was not carried out



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## 16 OTHER INFORMATION

### DISCLAIMER

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