

# Safety Data Sheet

## Lithium bis(pentafluoroethylsulfonyl)imide

Revision Date: 2/13/2015

Date Issued: 9/5/2017

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

**Product name** Lithium bis(pentafluoroethylsulfonyl)imide

**Product code** KI-0016

**CAS** 132843-44-8

**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.

**Identified uses** Laboratory chemicals, Manufacture of substances

**Supplier** IoLiTec  
Ionic Liquids Technologies GmbH  
Salzstrasse 184  
D – 74076 Heilbronn  
Germany

**Telephone** +49 (0)7131-89839-0

**Fax** +49 (0)7131-89839-109

**Emergency telephone** +49 (0)176-84850874

**E-mail** [msds@iolitec.de](mailto:msds@iolitec.de)

### 2 HAZARDS IDENTIFICATION

#### 2.1 Classification of the substance or mixture

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

Acute toxicity (dermal), Category 3, H311

Acute toxicity (oral), Category 3, H301

Skin corrosion/irritation, Category 1B, H314

# Safety Data Sheet

## Lithium bis(pentafluoroethylsulfonyl)imide

Revision Date: 2/13/2015

Date Issued: 9/5/2017

Specific Target Organ Toxicity - Repeated exposure, Category 2, H373

Hazardous to the aquatic environment: Chronic hazard, Category 3, H412

### Classification (67/548/EEC or 1999/45/EC)

R24/25: Toxic in contact with skin and if swallowed.

R34: Causes burns.

R48/22: Harmful: danger of serious damage to health by prolonged exposure if swallowed.

R52/53: Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### 2.2 Label elements

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



Signal word: **Danger**

#### *Hazard statements*

##### **H-phrases**

H301:	Toxic if swallowed.
H311:	Toxic in contact with skin.
H314:	Causes severe skin burns and eye damage.
H373:	May cause damage to organs through prolonged or repeated exposure .
H412:	Harmful to aquatic life with long lasting effects.

#### *Precautionary statements*

##### **P phrases**

P260:	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
-------	---

# Safety Data Sheet

## Lithium bis(pentafluoroethylsulfonyl)imide

Revision Date: 2/13/2015

Date Issued: 9/5/2017

P280:	Wear protectic 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/shower.
P305 + P351 + P338:	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 POISON CENTER or doctor/physician.

### Labelling (67/548/EEC or 1999/45/EC)



T

### Risk phrases

24/25:	Toxic in contact with skin and if swallowed.
34:	Causes burns.
48/22:	Harmful: danger of serious damage to health by prolonged exposure if swallowed.
52/53:	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

## 3 COMPOSITION/INFORMATION ON INGREDIENTS

Ingredient name	Contents	Health (Class)	Risk (H/R/No.)
Lithium bis(pentafluoroethylsulfonyl)imide	99%		H311, H301, H314, H373, H412
		C, T	23/24/25-34/35-36/37/38-41-48/22-52/53

# Safety Data Sheet

## Lithium bis(pentafluoroethylsulfonyl)imide

Revision Date: 2/13/2015

Date Issued: 9/5/2017

### 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 at once. If respiratory problems, artificial respiration/oxygen. Seek immediate medical advice.
<b>Ingestion</b>	Immediately rinse mouth and provide fresh air. Do not induce vomiting. Seek immediate medical advice.
<b>Skin</b>	Wash the skin immediately with soap and water.
<b>Eyes</b>	Promptly wash eyes with plenty of water while lifting the eye lids. Remove contact lenses if present and easy to do. Continue to rinse for at least 15 minutes. Seek immediate medical advice. Continue to rinse.

### 5 FIRE FIGHTING MEASURES

<b>Extinguishing media</b>	Use: Water spray, fog or mist. Carbon dioxides (CO <sub>2</sub> ). Dry chemicals, sand, dolomite etc.
<b>Special fire fighting procedures</b>	Avoid water in straight hose stream, will scatter and spread fire. Keep run-off water out of sewers and water sources. Dike for water control.
<b>Unusual fire &amp; explosion hazards</b>	Fire causes formation of toxic gases.
<b>Protective measures in fire</b>	Wear self-contained breathing apparatus as combustion may produce hazardous fumes.

# Safety Data Sheet

## Lithium bis(pentafluoroethylsulfonyl)imide

Revision Date: 2/13/2015

Date Issued: 9/5/2017

### 6 ACCIDENTAL RELEASE MEASURES

<b>Personal precautions during spill</b>	Wear protective clothing and avoid inhalation of vapor, skin or eye contact.
<b>Precautions to protect environment</b>	Avoid washing into water courses. Avoid contaminating public drains or water supply.
<b>Spill cleanup methods</b>	Avoid contact with skin or inhalation of spillage, dust or vapor, Avoid dust formation. Use neutralizing agent. Collect and reclaim or dispose in sealed containers in license waste. Extinguish all ignition sources. Avoid sparks, flames, heat and smoking. Ventilate.

### 7 HANDLING AND STORAGE

<b>Usage precautions</b>	Keep away from heat, sparks and open flame. Do not use in confined spaces without adequate ventilation and/or respirator.
<b>Storage precautions</b>	Store at moderate temperatures in dry, well ventilated area.
<b>Storage criteria</b>	Chemical storage.

### 8 EXPOSURE CONTROLS AND PERSONAL PROTECTION

<b>Protective equipment</b>	Safety goggles. Chemical resistant gloves. Protective clothing.
<b>Process control measures</b>	Provide eyewash station and safety shower. Use engineering controls to reduce air contamination to permissible exposure levels.

# Safety Data Sheet

## Lithium bis(pentafluoroethylsulfonyl)imide

Revision Date: 2/13/2015

Date Issued: 9/5/2017

<b>Ventilation</b>	Provide adequate general and local exhaust ventilation.
<b>Respirators</b>	Use high efficiency particulate respirator with appropriate filter.
<b>Other protection</b>	Wear overalls and industrial shoes.

### 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance</b>	Solid, powder.
<b>Color</b>	white
<b>Odor/taste</b>	No characteristic odor, bitter taste.

### 10 STABILITY AND REACTIVITY

<b>Stability</b>	No particular stability concerns.
<b>Materials to avoid</b>	Avoid contact to strong oxidizers. Avoid acid conditions.
<b>Hazardous Decomposition Products</b>	High temperatures generate: Corrosive gases/vapor/fumes of: Carbon dioxide (CO <sub>2</sub> ). Carbon monoxide (CO). Nitrous gases (NO <sub>x</sub> ). Hydrogen fluoride (HF). Sulfur dioxide (SO <sub>2</sub> ).

### 11 TOXICOLOGICAL INFORMATION

<b>Ingestion</b>	Toxic if swallowed.
<b>Skin</b>	Corrosive in contact with skin.
<b>Eyes</b>	Corrosive in contact with eyes.

# Safety Data Sheet

## Lithium bis(pentafluoroethylsulfonyl)imide

Revision Date: 2/13/2015

Date Issued: 9/5/2017

---

### **Additional toxicological information**

To the best of our knowledge the acute and chronic toxicity of this substance is not fully known.

Danger through skin absorption.

Swallowing will lead to a strong corrosive effect on mouth and throat and to the danger of perforation of esophagus and stomach.

No classification data on carcinogenic properties on this material is available from the EPA, IARC, NTP, OSHA or ACGIH.

## **12 ECOLOGICAL INFORMATION**

### **Environmental hazards**

Avoid washing into water courses. Avoid contaminating public drains or water supply.  
Harmful to aquatic organisms.

## **13 DISPOSAL CONSIDERATIONS**

### **Disposal method**

Contact specialist disposal companies.

Dispose of in accordance with Local Authority requirements. Recover and reclaim or recycle, if practical.

# Safety Data Sheet

## Lithium bis(pentafluoroethylsulfonyl)imide

Revision Date: 2/13/2015

Date Issued: 9/5/2017

### 14 TRANSPORT INFORMATION

<b>General</b>	Corrosive solid, toxic, n.o.s.
<b>UN No.</b>	2923
<b>Packing group</b>	II
<b>Road transport notes</b>	1. Risk: 8    2. Risk: 6.1 EMS: 8-15    P.I.: P002
<b>Rail transport notes</b>	ADR 8 (CT 2) Corrosive substances Danger Code (Kemler): 86
<b>Sea transport notes</b>	1. Risk: 8    2. Risk: 6.1 EMS: 8-15    P.I.: P002.
<b>Air transport notes</b>	1. Risk: 8    2. Risk: 6.1 EMS: 8-15    P.I.: P002.

### 15 REGULATORY INFORMATION

<b>Label for supply</b>	T Toxic.
<b>H-phrases</b>	
H301:	Toxic if swallowed.
H311:	Toxic in contact with skin.
H314:	Causes severe skin burns and eye damage.
H373:	May cause damage to organs through prolonged or repeated exposure .
H412:	Harmful to aquatic life with long lasting effects.
<b>P phrases</b>	
P260:	Do not breathe dust/ fume/ gas/ mist/ vapours/ spray.
P280:	Wear protectic gloves/protective clothing/eye protection/face protection .



# Safety Data Sheet

## Lithium bis(pentafluoroethylsulfonyl)imide

Revision Date: 2/13/2015

Date Issued: 9/5/2017

---

P303 + P361 + P353: IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing. Rinse skin with water/shower.

P305 + P351 + P338: 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 POISON CENTER or doctor/physician.

### Risk phrases

R 22: Danger of serious damage to health if swallowed

R 23: Toxic by inhalation

R 24: Toxic in contact with skin

R 25: Toxic if swallowed

R 34: Causes burns

R 35: Causes severe burns

R 36: Irritating to eyes.

R 37: Irritating to respiratory system.

R 38: Irritating to skin.

R 41: Risk of serious damage to eyes.

R 48: Danger of serious damage to health by prolonged exposure.

R 52: Harmful to aquatic organisms

R 53: May cause long-term adverse effects in the aquatic environment.

### Safety phrases

S 22: Do not breathe dust.

S 24/25: Avoid contact with skin and eyes.

S 26: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S28: After contact with skin, wash immediately with plenty of water and liquid soap.

# Safety Data Sheet

## Lithium bis(pentafluoroethylsulfonyl)imide

Revision Date: 2/13/2015

Date Issued: 9/5/2017

S 36/37/39: Wear suitable protective clothing gloves and eyes/face protection.

S 45: In case of accident or if you feel unwell seek medical advice immediately.

S 61: Avoid release to the environment.

Refer to special instructions / Safety data sheets.

### 16 OTHER INFORMATION

#### DISCLAIMER

THE ABOVE INFORMATION IS BELIEVED TO BE CORRECT BUT DOES NOT PURPOSED TO BE ALL INCLUSIVE AND SHALL BE USED ONLY AS A GUIDE. IOLITEC SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT. THIS INFORMATION RELATES ONLY TO THE SPECIFIC MATERIAL DESIGNATED AND MAY NOT BE VALID FOR SUCH MATERIAL USED IN COMBINATION WITH ANY OTHER MATERIALS OR ANY PROCESS. IT IS THE USER'S RESPONSIBILITY TO SATISFY HIMSELF AS TO THE SUITABILITY OF SUCH INFORMATION FOR HIS OWN PARTICULAR USE.

IN NO WAY SHALL IOLITEC BE LIABLE FOR ANY CLAIMS, LOSSES OR DAMAGES OF ANY THIRD PARTY OR FOR THE LOST PROFITS OR ANY SPECIAL, INDIRECT, INCIDENTAL, CONSEQUENTIAL OR EXEMPLARY DAMAGES, HOWSOEVER ARISING, EVEN IF THE COMPANY HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.