

## SAFETY DATA SHEET

---

### 1. CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Name: Lithium Bis (Fluorosulfonyl) imide  
Product Number: S2682

Sarchem Laboratories, Inc.  
5012 Industrial Road  
Farmingdale, NJ 07727

Emergency Phone No: 800-255-3924  
International: +1-813-248-0585  
ChemTel Inc

---

### 2. HAZARDS INFORMATION:

#### 2.1 Classification of the substance or mixture

H314 Skin Corr. 1B R34, R23/34/35  
H318 Eye Dam. 1 R41

#### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

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

#### 2.2 GHS Label elements, including precautionary statements Pictogram Signal word

##### Warning

Emergency Overview

##### Pictogram



Signal word Danger

##### Hazard statement(s)

H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.

##### Precautionary statement(s)

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P301 + P330 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
+ P331  
P303 + P361 IF ON SKIN (or hair): Remove/Take off immediately all contaminated clothing.  
+ P353 Rinse skin with water/shower.

- P304 + P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
- P305 + P351 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- + P338
- P501 Dispose of contents/container to local regulations

### 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

---

## 3. COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS</u>	<u>EC:NO</u>	<u>Molecular Weight</u>
Lithium bis(fluorosulfonyl)amide	171611-11-3		187.06 g/mol
Synonyms:	Imidodisulfonyl fluoride lithium salt		
Formula:	F2NO4S2Li		

---

## 4. FIRST AID MEASURES:

### General Advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangers area.

### If inhaled

If breathed in, move person into fresh air. If not breathing give artificial respiration. Consult a physician.

### In case of skin contact

Take off contaminated clothing and shoes immediately. Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Flush eyes with water as a precaution.

### If swallowed

Do NOT induce vomiting. Rinse mouth with water. Consult a physician.

### Most important symptoms and effects

Severe burns may occur.

---

## 5. FIRE FIGHTING MEASURES

### Conditions of flammability

Not flammable or combustible.

**Suitable extinguishing media**

Use dry chemical or carbon dioxide. Do not use water.

**Special protective equipment for fire-fighters**

Wear self contained breathing apparatus for fire fighting if necessary.

**Special Hazards arising from the substance or mixture**

Corrosive.

---

**6. Accidental Release Measures****Personal precautions**

Avoid dust formation. Avoid breathing vapors, mist or gas.

**Environmental precautions**

Do not discharge into drains or rivers

**Methods for cleaning up**

Mix with sand or vermiculite. Transfer to a closable, labelled salvage container for disposal by an appropriate method.

---

**7. Handling and Storage****Handling**

Avoid formation of dust and aerosols.

Ensure there is sufficient ventilation of the area.

Wash hands immediately after contamination.

Avoid contact with water or humidity.

**Storage**

Keep container tightly closed in a dry and well-ventilated place. Store away from oxidising agents

Keep in a dry place.

---

**8. Exposure Controls / Personal Protection**

Contains no substances with occupational exposure limit values.

**Personal protective equipment****Respiratory protection**

Where risk assessment shows air-purifying respirators are appropriate use a full-face particle respirator type N99 (US) or type P2 (EN 143) respirator cartridges as a backup to engineering controls. If the

respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

**Hand 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.

**Eye protection**

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

**Skin and body protection**

Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

**Hygiene measures**

Handle in accordance with good industrial hygiene and safety practice.

---

**9. PHYSICAL AND CHEMICAL PROPERTIES:****Appearance**

Form	powder
Color	white

**Safety data**

pH	no data available
Melting Point	124-128 °C
Boiling Point	no data available
Flash Point	no data available
Ignition temperature	no data available
Lower exposure limit	no data available
Upper exposure limit	no data available
Vapor pressure	no data available
Water solubility	no data available

---

**10. Stability and Reactivity****Storage stability**

Stable under recommended storage conditions.

**Materials to avoid**

no data available

**Conditions to Avoid**

Moist Air.

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. -

Other decomposition products - no data available

---

**11. Toxicological Information**

**Acute toxicity**

no data available

**Skin corrosion/irritation**

strong corrosive effect on skin and mucous membranes

**Serious eye damage/eye irritation**

strong corrosive effect

**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.

**ACGIH:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH.

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Reproductive toxicity**

no data available

**Specific target organ toxicity - single exposure (Globally Harmonized System)**

no data available

---

**Specific target organ toxicity - repeated exposure (Globally Harmonized System)**

no data available

**Potential health effects**

Inhalation Toxic if inhaled. May cause respiratory tract irritation.

Ingestion Toxic if swallowed.

Skin Toxic if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

---

**12. Ecological Information****Elimination information (persistence and degradability)**

No data available

**Ecotoxicity effects**

No data available

**Further information on ecology**

No data available

---

**13. Disposal Considerations****Product**

Observe all federal, state, and local environmental regulations. Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber

---

**14. Transportation Information****DOT (US)**

UN number: 1759 Class: 8 Packing group: III

Proper Shipping name: Corrosive solid, n.o.s. (Lithium bis(fluorosulfonyl)amide)

**IMDG**

UN number: 1759 Class: 8 Packing group: III

Proper Shipping name: Corrosive solid, n.o.s. (Lithium bis(fluorosulfonyl)amide)

Special Precautions for user: This substance, when containing less alcohol, water or phlegmatizer than specified, shall not be transported, unless specifically authorized by the competent authority.

**IATA**

UN number: 1759 Class: 8 Packing group: III

Proper Shipping name: Corrosive solid, n.o.s. (Lithium bis(fluorosulfonyl)amide)

---

## 15. Regulatory Information

### OSHA Hazards

Target Organ Effect, Toxic by inhalation., Toxic by ingestion, Toxic by skin absorption

### DSL Status

All components of this product are on the Canadian DSL list.

### SARA 302 Components

SARA 302: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

SARA 313: This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

### SARA 311/312 Hazards

Not SARA HAZARD

---

## 16. OTHER INFORMATION:

### Further Information

Copyright 2015 Sarchem Laboratories, Inc. License granted to make unlimited paper copies for internal use only. The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sarchem Laboratories, Inc. shall not be held liable for any damage resulting from handling or from contact with the above product. See reverse side of invoice or packing slip for additional terms and conditions of sale.