

## LTS Research Laboratories, Inc. Safety Data Sheet Lithium Fluoride

## 1. Product and Company Identification

Trade Name: Lithium fluoride

Chemical Formula: LiF

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

Street: 37 Ramland Road
City: Orangeburg
State: New York
Zip Code: 10962
Country: USA

Tel #: 855-587-2436 / 855-lts-chem

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

#### 2. Hazards Identification

Signal Word: Danger



Hazard Statements: H301: Toxic if swallowed

H315: Causes skin irritation

H319: Causes serious eye irritation H335: May cause respiratory irritation

Precautionary Statements: P261 Avoid breathing dust/fume/vapor

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

protection

P301+P310: IF SWALLOWED: Immediately call a POISON CENTER

or doctor/physician

P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses if present and easy to do –

continue rinsing P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 1

| 3. Composition                   |  |
|----------------------------------|--|
| Chemical Family:                 | Salt   |
| Additional Names:                | None   |
| Lithium fluoride (LiF):          |  |
| Percentage:                      | 100 wt%  |
| CAS #:                           | 7789-24-4  |
| EC #:                            | 232-152-0  |
|                                  | 4. First Aid Procedures  |
| General Treatment:               | Seek medical attention if symptoms persist.  |
| Special Treatment:               | None   |
| Important Symptoms:              | None   |
| Inhalation:                      | Remove victim to fresh air. Supply oxygen if breathing is difficult.                       |
| Ingestion:                       | Do not induce vomiting. Seek medical attention.  |
| Skin:                            | Wash affected area with mild soap and water. Remove any                                    |
| Eyes:                            | contaminated clothing.  Flush eyes with water, blinking often for several minutes. Remove  |
|                                  | contact lenses if present and easy to do. Continue rinsing                                 |
|                                  | 5. Firefighting Measures   |
| Flammability:                    | Non-flammable  |
| Extinguishing Media:             | No special restrictions – use suitable extinguishing agent for                             |
|                                  | surrounding material and type of fire.   |
| Spec. Fire Fighting Procedure:   | Use full-face, self-contained breathing apparatus with full protective                     |
|                                  | clothing to prevent contact with skin and eyes. See section 10 for decomposition products. |
|                                  | 6. Accidental Release Measures   |
| If Material Is Released/Spilled: | Wear appropriate respiratory and protective equipment specified in                         |
|                                  | special protection information. Isolate spill area and provide                             |
|                                  | ventilation. Vacuum up spill using a high efficiency particulate                           |
|                                  | absolute (HEPA) air filter and place in a closed container for disposal.                   |
| Environmental Precautions:       | Take care not to raise dust.  Isolate runoff to prevent environmental pollution.           |
|                                  | 7. Handling and Storage  |
| Handling Conditions:             | Wash thoroughly after handling.  |
| Storage Conditions:              | Store in a cool dry place in a tightly sealed container. Store apart from                  |
| _                                | materials and conditions listed in section 10.   |
| Work/Hygienic Maintenance:       | Do not use tobacco or food in work area. Wash thoroughly before                            |
|                                  | eating and smoking. Do not blow dust off clothing or skin with                             |
| Ventilation                      | compressed air.  |
| Ventilation:                     | Provide sufficient ventilation to maintain concentration at or below threshold limit.      |
|                                  | unconoid illint.   |

# 8. Exposure Controls and Personal Protection Permissible Exposure Limits: 2.5 mg/m³ as F, long-term value

Special Equipment: None

Threshold Limit Value:

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

#### 9. Physical and Chemical Characteristics

2.5 mg/m<sup>3</sup> as F, long-term value

Color White

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odorless Odor: Water Solubility: 1.3 g/l **Boiling Point:** 1680 °C **Melting Point:** 845 °C Flash Point: N/A **Autoignition Temperature:** N/A Density: 2.635 g/cc 25.94 g/mol Molecular weight:

## 10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With:
Incompatible Conditions:

Oxidizing agents
None

Hazardous Decomposition Products: Hydrogen fluoride, Lithium oxide

## 11. Toxicological Information

Potential Health Effects:

Eyes: May cause irritation Skin: May cause irritation

Ingestion: Toxic

Inhalation: May cause irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: 143 mg/kg for rat by mouth

Carcinogen: N/A

#### 12. Ecological Information

Aquatic Toxicity: Low Persistent Bioaccumulation Toxicity: No Very Persistent, Very Bioaccumulative: No Notes: N/A

#### 13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

## 14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 6.1 Toxic substances

Packing Group: III UN Number: UN3288

Proper Shipping Name: Toxic solid, inorganic, n.o.s. (Lithium fluoride)

### 15. Regulatory Information

Sec 302 Extremely Hazardous: No Sec 304 Reportable Quantities: N/A Sec 313 Toxic Chemicals: Yes

#### 16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Research

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