Heegermaterials

Heeger Materials 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: Heeger Materials Inc.

Address: 230 Steele St Denver

CO 80206 United States

Tel #: +925-385-8104

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

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word:





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
_	contaminated clothing.
Eyes:	Flush eyes with water, blinking often for several minutes. Remove
	contact lenses if present and easy to do. Continue rinsing
1000	5. Firefighting Measures
Flammability:	Non-flammable
Extinguishing Media:	No special restrictions – use suitable extinguishing agent for
Spec. Fire Fighting Procedure:	surrounding material and type of fire. Use full-face, self-contained breathing apparatus with full protective
Spec. The Fighting Procedure.	clothing to prevent contact with skin and eyes. See section 10 for
	decomposition products.
	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.
E. Caramana I Danier Comm	Take care not to raise dust.
Environmental Precautions:	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
Waladi II and a Malada	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 compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
· characton.	threshold limit.
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8. Exposure Controls and Personal Protection Permissible Exposure Limits: 2.5 mg/m³ as F, long-term value Threshold Limit Value: 2.5 mg/m³ as F, long-term value Special Equipment: None **Respiratory Protection: Dust Respirator** Protective Gloves: Rubber gloves Eve Protection: Safety glasses or goggles **Body Protection:** Protective work clothing. Wear close-toed shoes and long sleeves/pants. 9. Physical and Chemical Characteristics Color White Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: **Odorless** 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 Molecular weight: 25.94 g/mol 10. Reactivity Stable under recommended storage conditions Stability: Oxidizing agents Reacts With: **Incompatible Conditions:** None Hydrogen fluoride, Lithium oxide Hazardous Decomposition Products: Stac. 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation Skin: May cause irritation Ingestion: Toxic Inhalation: May cause irritation Chronic: N/A N/A Signs & Symptoms: **Aggravated Medical Conditions:** N/A Median Lethal Dose: 143 mg/kg for rat by mouth N/A Carcinogen: 12. Ecological Information Aquatic Toxicity: Low

13. Disposal Considerations

Persistent Bioaccumulation Toxicity:

Notes:

Very Persistent, Very Bioaccumulative:

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

No

No

N/A

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 6.1 Toxic substances

Packing Group: \mathbf{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 r to take he user to fulth.

07/06/2015 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.

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