

LTS Research Laboratories, Inc. Safety Data Sheet Lithium Hexafluorophosphate

1. Product and Company Identification

Trade Name: Lithium hexafluorophosphate

Chemical Formula: LiPF₆

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: H302: Harmful if swallowed

H311: Toxic in contact with skin

H314: Causes severe skin burns and eye damage

Precautionary Statements: P260: Do not breathe dust/fume/gas/mist/vapours/spray

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

P361: Remove/Take off immediately all contaminated clothing

P405: Store locked up

P501: Dispose of contents/container in accordance with

local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 3
Flammability: 0
Physical: 1

3. Composition

Chemical Family: Salt
Additional Names: None

Lithium hexafluorophosphate (LiPF₆):

Percentage: 100 wt% CAS #: 21324-40-3 EC #: 244-334-7

	4. First Aid Procedures
General Treatment:	Seek medical attention if symptoms persist.
Special Treatment:	None
Important Symptoms:	Causes severe skin burns.
	Causes serious eye damage.
Inhalation:	Remove victim to fresh air. Supply oxygen if breathing is difficult.
Ingestion:	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
	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.
	Take care not to raise dust.
Environmental Precautions:	Isolate runoff to prevent environmental pollution.
	7. Handling and Storage
Handling Conditions:	Handle under dry protective gas. Wash thoroughly after handling.
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Store under dry
Work/Hygionia Maintananaa	inert gas. 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
Vantilation	compressed air. Provide sufficient ventilation to maintain concentration at or below
Ventilation:	
	threshold limit.

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: Use a respirator with type P100 (USA) or P3 (EN143) cartridges as a

backup to engineering controls. Risk assessment should be performed to determine if air-purifying respirators are appropriate. Only use equipment tested and approved under appropriate government

standards.

Protective Gloves: Nitrile rubber, NBR 0.11mm thick.

Penetration time of glove material: 480 minutes

Eye Protection: Safety glasses or goggles, Full face protection

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color White to pale brown

Form:
Odor:
Odorless
Water Solubility:
Boiling Point:
Melting Point:
Flash Point:
Autoignition Temperature:
N/A
N/A
N/A

Density: 1.5 g/cc

Molecular weight: 151.91 g/mol Research

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents
Incompatible Conditions: Water/moisture, Heat

Hazardous Decomposition Products: Hydrogen fluoride, Phosphorus oxides, Lithium oxide

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage Skin: Causes severe skin burns, Toxic

Ingestion: Harmful, Strong corrosive effect on mouth and throat to the danger of

perforation of esophagus and stomach.

Inhalation: May cause irritation

Chronic: N/A

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

Median Lethal Dose: N/A

Carcinogen: N/A

	12. Ecological Information
Aquatic Toxicity:	Low
Persistent Bioaccumulation Toxicity:	No
Very Persistent, Very Bioaccumulative:	No
Notes:	N/A
	13 Disposal Considerations

13. Disposal Considerations

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

14. Transportation Data

Hazardous: Hazardous for transportation.



Hazard Class: 8 Corrosive substances.
Secondary Class: 6.1 Toxic substances.

Packing Group: II UN Number: UN2923

Proper Shipping Name: Corrosive solids, toxic, n.o.s. (Lithium hexafluorophosphate)

15. Regulatory Information

Sec 302 Extremely Hazardous:
Sec 304 Reportable Quantities:

No
No
N/A

Sec 313 Toxic Chemicals: No

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.

Document Last Revised: 06/30/2015