

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material 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: XI'AN FUNCTION MATERIAL GROUP CO., LTD

Danger

Street: No. 69, Gazelle Valley, High-Tech Zone

City: XI'AN
State: Shannxi
Zip Code: 710077
Country: China

Tel#: +86-29-88993870/+86-13519132051

2. Hazards Identification

Signal Word:





Hazard Statements:

H301: Toxic if swallowed

H314: Causes severe skin burns and eye damage

H318: Causes serious eye damage H335: May cause respiratory irritation

H372: Causes damage to organs through prolonged or repeated

exposure

Precautionary Statements:

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

P264: Wash face, hands and any exposed skin thoroughly after

handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well-ventilated area

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

P301 + P310+ P330 + P331: IF SWALLOWED: Rinse mouth. Do

NOT induce vomiting. Immediately call a POISON CENTER/doctor.

P303 + P361 + P353: IF ON SKIN (or hair): Take off immediately all

contaminated clothing. Rinse skin with water/shower.

P304 + P340 + P310 IF INHALED: Remove person to fresh air and

keep comfortable for breathing. Immediately call a POISON

CENTER/doctor.

P305 + P351 + P338 + P310: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.

P314: Get medical advice/ attention if you feel unwell. P363: Wash contaminated clothing before reuse. P403+P233: Store in a well-ventilated place. Keep container tightly P405: Store locked up. P501: Dispose of contents/ container to an approved waste disposal plant. HMIS Health Ratings (0-4): Health: 3 0 Flammability: Physical: 1 3. Composition Chemical Family: Inorganic Additional Names: N/A Lithium hexafluorophosphate (LiPF₆): Percentage: 100 wt% CAS #: 21324-40-3 EC #: 244-334-7 4. First Aid Procedures General Treatment: Immediate medical attention is required if symptoms persist. Special Treatment: None Important Symptoms: Causes burns by all exposure routes. . Product is a corrosive material. Use of gastric lavage or emesis is contraindicated. Possible perforation of stomach or esophagus should be investigated: Ingestion causes severe swelling, severe damage to the delicate tissue and danger of perforation. Inhalation:

If breathed in, move person into fresh air. If not breathing, give

artificial respiration. Consult a physician.

Ingestion: Give one to two glasses of water. Never induce vomiting or give

anything by mouth to an unconscious person. Call a physician or

poison control center immediately.

Skin: Wash affected area with mild soap and water. Remove any

contaminated clothing. Immediate medical attention is required Flush eyes with water, blinking often for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. Immediate

medical attention is required

5. Firefighting Measures

Flammability: Non-flammable

Eyes:

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire. Do not use water for metal fires –

use CO₂, sand, extinguishing powder.

Use full-face, self-contained breathing apparatus with full protective Spec. Fire Fighting Procedure:

clothing to prevent contact with skin and eyes. See section 10 for

decomposition products.

6. Accidental Release Measures

Wear appropriate respiratory and protective equipment specified in If Material Is Released/Spilled:

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.

Isolate runoff to prevent environmental pollution. **Environmental Precautions:**

7. Handling and Storage

Wash thoroughly after handling. Handling Conditions:

Store in a cool dry place in a tightly sealed container. Store apart from **Storage Conditions:**

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

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 2.5 mg/m3 as LiPF₆, long-term value

Threshold Limit Value: 2.5 mg/m3 as LiPF₆, long-term value

Special Equipment: None

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

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.

Tight sealing safety goggles. Face protection shield. Eve Protection: **Body Protection:**

Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color Off-White

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

Odor: **Odorless** Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 200 °C Flash Point: N/A

Autoignition Temperature: N/A Density: 2.83 g/cc

151.91 g/mol Molecular weight:

10. Reactivity

Moisture sensitive. Air sensitive. Stability:

Reacts With: Reacts dangerously with glass. Avoid strong oxidizing agents, Strong

acids.

Incompatible Conditions: Moisture, Air

Hazardous Decomposition Products: Oxides of phosphorus, Hydrogen fluoride, 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: N/A
Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A
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: 8 Corrosive substances Secondary Class: 6.1 Toxic substances.

Packing Group:

UN Number: UN2923

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

15.]	Regu	latory l	Inf	ormation

Sec 302 Extremely Hazardous:

No
Sec 304 Reportable Quantities:

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: 12/11/2020