### XI'AN FUNCTION MATERIAL GROUP CO., LTD

Safety Data Sheet Lithium Aluminate

# 1. Product and Company Identification

Trade Name: Lithium aluminate

Chemical Formula: LiAlO<sub>2</sub>

Recommended Use: Scientific research and development

Manufacturer/Supplier: XI'AN FUNCTION MATERIAL GROUP CO., LTD

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

City: XIAN
State: SHAANXI
Zip Code: 710077
Country: CHINA

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

#### 2. Hazards Identification

Signal Word: None

Hazard Statements: None Precautionary Statements: None

HMIS Health Ratings (0-4):

Health: 1
Flammability: 0
Physical: 0

# 3. Composition

Chemical Family: Ceramic

Additional Names: Lithium aluminum oxide, Lithium metaaluminate

Lithium aluminate (LiAlO<sub>2</sub>):

Percentage: 100 wt% CAS #: 12003-67-7 EC #: 234-434-9

## 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: Give one to two glasses of water and induce vomiting. Never induce

vomiting or give anything by mouth to an unconscious person.

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 No special restrictions – use suitable extinguishing agent for Extinguishing Media: surrounding material and type of fire. 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. **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 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. Provide sufficient ventilation to maintain concentration at or below Ventilation: threshold limit. 8. Exposure Controls and Personal Protection None Permissible Exposure Limits: Threshold Limit Value: None None Special Equipment: **Respiratory Protection: Dust Respirator Protective Gloves:** Rubber gloves Safety glasses or goggles Eye Protection: Protective work clothing. Wear close-toed shoes and long **Body Protection:** sleeves/pants. 9. Physical and Chemical Characteristics Color White Form: Powder, Granules, Pellets, Sputtering target, Custom parts Odor: **Odorless** 

Odor:
Water Solubility:
Boiling Point:
N/A
Melting Point:
Flash Point:
N/A
Autoignition Temperature:
N/A
Density:
2.55 g/cc
Molecular weight:
Odorless
Insoluble
N/A
N/A
2.1625 °C
N/A
2.55 g/cc
65.92 g/mol

10. Reactivity Stability: Stable under recommended storage conditions Reacts With: Strong oxidizing agents **Incompatible Conditions:** None Hazardous Decomposition Products: Metal oxide fume 11. Toxicological Information Potential Health Effects: Eyes: May cause irritation May cause irritation Skin: May cause irritation Ingestion: Inhalation: May cause irritation Chronic: Large amounts of lithium compounds may cause vomiting, diarrhea, ataxia, intestinal irritation, kidney injury, central nervous system depression and a drop in blood pressure. central nervous system effects may include slurred speech, blurred vision, dizziness, sensory loss, convulsions and stupor. Chronic intake may cause neuromuscular effects such as tremor, ataxia, weakness, clonus and hyperactive reflexes. Lithium can cause kidney damage, gastrointestinal disturbances, fatigue, dehydration, weight loss, dermatological effects and thyroid damage. Lithium ion has shown teratogenic effects in rats and mice. Signs & Symptoms: N/A **Aggravated Medical Conditions:** N/A Median Lethal Dose: N/A N/A Carcinogen: 12. Ecological Information Low Aquatic Toxicity: No Persistent Bioaccumulation Toxicity: 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:	Not hazardous for transportation.	

Hazardous: Not hazar
Hazard Class: N/A
Packing Group: N/A
UN Number: N/A

Proper Shipping Name: N/A

15. Regulatory Information

Sec 302 Extremely Hazardous:

No

Soc 304 Reportable Quantities:

N/A

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.

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