

XI'AN FUNCTION MATERIAL GROUP CO., LTD

Material Safety Data Sheet Aluminum Oxynitride

1. Product and Company Identification

Trade Name: Aluminum Oxynitride

Chemical Formula: Al₂₃O₂₇N₅

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

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

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

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

2. Hazards Identification

Signal Word: Warning



Hazard Statements: 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.

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

rinsing.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest

in a position comfortable for breathing

P405: Store locked up

P501: Dispose of contents/container in accordance with local/regional/national/international regulations

HMIS Health Ratings (0-4):

Health: 1 Flammability: 0 Physical: 1

3. Composition	
Chemical Family:	Ceramic
Additional Names:	ALON
Aluminum Oxynitride (Al ₂₃ O ₂₇ N ₅):	
Percentage:	100 wt%
CAS #:	12633-97-5
EC #:	N/A
	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.
	Keep victim warm.
Ingestion:	Seek medical attention.
Skin:	Wash affected area with mild soap and water. Remove any
T.	contaminated clothing. Seek medical attention.
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, except as powder
Extinguishing Media:	Do not use water for metal fires – use CO ₂ , sand, extinguishing powder.
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.
The state of the s	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 apart from
XX 1 // X 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	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
Vandilation.	compressed air.
Ventilation:	Provide sufficient ventilation to maintain concentration at or below
	threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 5 mg/m³ as Al₂O₃, long-term value

Threshold Limit Value: 1 mg/m³ as Al, long-term value

Special Equipment: None

Respiratory Protection: Use a respirator with type N95 (USA) or PE (EN 143) cartridges as a

> backup to engineering controls. Risk assessment should be performed to determine if purifying respirators are appropriate. Only use

equipment tested and approved under appropriate government

standards

Protective Gloves: Rubber gloves

Eve Protection: Safety glasses or goggles, with side shields

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

sleeves/pants.

9. Physical and Chemical Characteristics

Color **Transparent**

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

Odor: N/A Water Solubility: N/A **Boiling Point:** N/A Melting Point: 2150 °C Flash Point: N/A **Autoignition Temperature:** N/A Density: N/A

1122.59 g/mol Molecular weight:

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Oxidizing agents, acids, bases, halogens, halocarbons, water

Incompatible Conditions: None

Hazardous Decomposition Products: Metal oxide fume, Nitrogen oxide, Ammonia

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye damage

Skin: Cause irritation Ingestion: May cause irritation Inhalation: May cause irritation

Chronic: N/A

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

N/A Median Lethal Dose:

N/A Carcinogen:

12. Ecological Information

Aquatic Toxicity: N/A Persistent Bioaccumulation Toxicity: N/A Very Persistent, Very Bioaccumulative: N/A

Notes: Avoid transfer into the environment.

Dispose of in accordance with local, state, national, and international regulations.		
	14. Transportation Data	
Hazardous:	Not hazardous for transportation.	
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	
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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