

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

Material Safety Data Sheet Aluminum hydroxide

1. Product and Company Identification

Trade Name: Aluminum hydroxide

Chemical Formula: Al(OH)<sub>3</sub>

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

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

in a position comfortable for breathing

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: 1
Flammability: 0
Physical: 1

3. Composition

Chemical Family: Nonmetal

Additional Names: Aluminum trihydroxide

Aluminum hydroxide (Al(OH)<sub>3</sub>):

Percentage: 100 wt% CAS #: 21645-51-2 EC #: 244-492-7

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 patient warm. Seek immediate medical attention.	
Ingestion:	Seek immediate medical attention.	
Skin:	Immediately wash affected area with mild soap and water. Remove any contaminated clothing. Seek immediate medical attention. Flush eyes with water, blinking often for several minutes. Remove	
Eyes:	contact lenses if present and easy to do. Continue rinsing. Seek immediate medical attention.	
	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. Keep unprotected persons away. 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.	
740	7. Handling and Storage	
Handling Conditions:	Wash thoroughly after handling.	
Storage Conditions:	Store in a cool dry place in a tightly sealed container. Do not store together with acids. Store away from oxidizing agents. 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.	
Ventilation:	Provide sufficient ventilation to maintain concentration at or below threshold limit.	
8.	Exposure Controls and Personal Protection	
Permissible Exposure Limits: Threshold Limit Value:	5 mg/m <sup>3</sup> as Al, respirable fraction, long-term value 1 mg/m <sup>3</sup> as Al, respirable fraction, long-term value	
Special Equipment:	Properly operating chemical fume hood designed for hazardous chemicals and having an average face velocity of at least 100 feet per minute.	
Respiratory Protection: Protective Gloves:	Dust Respirator Nitrile rubber gloves with minimum thickness of 0.11 mm	
Eye Protection: Body Protection:	Safety glasses or goggles Protective work clothing. Wear close-toed shoes and long sleeves/pants.	

9. Physical and Chemical Characteristics Color White Form: Granules, powder Odor: Odorless Water Solubility: Insoluble **Boiling Point:** N/A Melting Point: 300°C Flash Point: N/A **Autoignition Temperature:** N/A 2.42 g/cc Density: Molecular weight: 78.0 g/mol 10. Reactivity Stability: Stable under recommended storage conditions Reacts With: Oxidizing agents, Strong acids **Incompatible Conditions:** None **Hazardous Decomposition Products:** Metal oxide fume, Aluminum oxide 11. Toxicological Information Potential Health Effects: Eyes: Causes serious eye irritation Skin: Cause skin irritation Ingestion: May cause irritation Inhalation: May cause irritation Chronic: N/A Signs & Symptoms: Nausea, Vomiting, Constipation **Aggravated Medical Conditions:** 2,000 mg/kg for rat by mouth Median Lethal Dose: IARC: No component of this product present at levels greater than or Carcinogen: equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC. NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP. OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by **OSHA** 12. Ecological Information Aquatic Toxicity: Toxicity to fish semi-static test NOEC - Salmo trutta - > 0.07 mg/l - 96 h (OECD Test Guideline 203) Toxicity to daphnia and other aquatic invertebrates - static test NOEC -Daphnia magna (Water flea) -> 0.005 mg/l - 48 h (OECD Test Guideline 202) Toxicity to algae static test NOEC - Pseudokirchneriella subcapitata (algae) -> 0.004 mg/l -72 h (OECD Test Guideline 201) N/A Persistent Bioaccumulation Toxicity: Very Persistent, Very Bioaccumulative: Notes: Do not allow undiluted product or large quantities to reach ground water, water course or sewage system Do not allow material to be released to the environment without proper

governmental permits.

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	

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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