



Material Safety Data Sheet

Section 1: Product Identification

Product Name: Aluminum Hydroxide

Product Use: Flame Retardant

Chemical name/synonyms: Alumina Trihydrate, ATH

Manufactured by:

SHANDONG CHENXU NEW MATERIAL CO., LTD

INNOVATION STREET HIGH - TECH INDUSTRIAL PARK, DEZHOU CITY, SHANDONG, CHINA

Email: james08@chenxuchem.com

EMERGENCY PHONE NUMBER: +86-531-87978111

Section 2: Composition/Information Ingredients

Ingredient/Substance	CAS #	EINECS #	% by Weight	Symbol Letters And R-Phrase
Aluminum Hydroxide	21645-51-2	244-492-7	99.6	Non applicable

Section 3: Hazards Identification

Classification

USA: The product is not known to be a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard 29 CFR 1910.1200.

Canada: Not a controlled product under WHMIS.

European Communities (EC): This product is not classified as dangerous according to the European Community Directive 1999/45/EC and subsequent amendments.

Section 4: First Aid Measures

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

Ingestion:

Not expected to require first aid measures. If large amounts were swallowed, give water to drink and get medical advice.

Skin Contact:

Wash with soap and water. Covering the irritated skin with an emollient. Get medical attention if irritation develops.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.



Flammable Properties: Not considered to be a fire hazard since the solid does not burn. Not considered to be an explosion hazard.

Suitable Extinguishing Media:

Use any means suitable for extinguishing surrounding fire.

=====**Section 6: Accidental Release Measures**=====

Small Spill:

Use appropriate tools to put the spilled powder in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill:

Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow to evacuate through the sanitary system. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

=====**Section 7: Handling and Storage**=====

Handling:

Wear personal protective equipment. Ensure adequate ventilation. Do not touch or walk through spilled material. Keep unnecessary personnel away.

Storage: store in a clean dry place. Keep container closed when not in use.

=====**Section 8: Exposure Controls/Personal Protection**=====

Exposure Limits:

Exposure limits for this product has been not established.

Eye Protection: Safety glasses with side-shields.

Respiration Protection: No personal respiratory protective equipment normally required.

=====**Section 9: Physical/Chemical Properties**=====

Appearance: White Powder

Odor: Odorless

Taste: Not available

Al(OH)₃ ≥ 99.5%

SiO₂ ≤ 0.03%

Fe₂O₃ ≤ 0.02%

Na₂O ≤ 0.40%

=====**Section 10: Stability and Reactivity**=====

Stability: The product is stable.

Conditions to Avoid: Incompatible materials

Incompatibility with various substances: Reactive with acids, alkalis.

Corrosivity: Non-corrosive in presence of glass.

Hazardous Polymerization: will not occur



Section 11: Toxicological information

Acute Toxicity: No available

Ingestion: Low acute oral toxicity; LD50 in rats is greater than 10,000 mg/kg of body weight.

Mutagenic Effect: Did not show mutagenic effects in animal experiments.

Skin irritation: Not expected to be an irritant.

Sensitization: aluminum hydroxide is not a skin sensitizer.

Section 12: Ecological information

Environmental Effects:

Ecological injuries are not known or expected under normal use. An environmental hazard can not be excluded in the event of unprofessional handling or disposal.

Persistence/Degradability: Not readily biodegradable.

Bioaccumulation: has the potential to bioaccumulation.

Section 13: Disposal Considerations

Disposal guidance:

No special disposal treatment is required, but local authorities should be consulted about any specific local requirements.

Tonnage quantities of product should, if possible, be used for an appropriate application.

Section 14: Transport information

DOT Classification: Not A DOT controlled material (United States).

Identification: Not Applicable.

Special Provisions for Transport: Not Applicable.

IMO International Maritime Dangerous Goods Code:

The substance is not subject to IMO IMDG Code.

Section 15: Other Information

This information is based on our present state of knowledge and is intended to provide general notes on our products and their uses. It should not therefore be construed as guaranteeing specific properties of the products described or their suitability for a particular application. Any existing industrial property rights must be observed. The quality of our products is guaranteed under our General Conditions of Sale.

Edition: January 05, 2023 – This data sheet replaces all previous issues.