



Safety Data Sheet

Section 1: Product Identification

Product Name: Aluminum Hydroxide

Product Code: AH-1, AH-1L, AH-3L, A-3, A-5, A-8, A-10, A-15, AH-8, AH-10H

Product Use: Flame Retardant / Mineral Filler

Chemical name/synonyms: Aluminium Hydroxide, Alumina Trihydrate, ATH

Manufactured By:

Shandong Chenxu New Material Co., Ltd.

South of Innovation Street East Extension, Hi -Tech Zone, Yucheng, Dezhou City, Shandong, China

Information In Case of Emergency

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Section 2: Composition/Information Ingredients

Component Identity	CAS NO.	EINECS NO.	% by Weight	Symbol Letter And R-Phrase
Aluminum Hydroxide	21645-51-2	244-492-7	100%	Non applicable

Section 3: Hazards Identification

GHS Label elements, including precautionary statements:



Signal word: Warning

Hazard statement(s): causes serious eye irritation, may cause respiratory irritation and causes skin irritation.

Prevention:

Obtain, read and follow all safety instructions before use. Wash ... thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

Response:

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

Continue rinsing. If eye irritation persists: Get medical help.

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.



Classification according to Regulation (EC) No 1272/2008[CLP]: This product is not classified as hazardous.

GHS classification in accordance with 29 CFR 1910.1200: Not a hazardous substance or mixture.

GHS label elements : Not a hazardous substance or mixture.

Potential Health Effects:

Eye Contact: Contact with eyes may cause irritation

Skin Contact: Not expected to cause skin irritation in normal use conditions.

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.

Eye Contact:

Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention if irritation occurs.

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.

Special Protective Equipment for Firefighters:

As in any fire, wear self-contained breathing apparatus pressure-demand and full protective gear.

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.

Waste Disposal: Dispose in accordance with local and state laws.



Section 7: Handling and Storage

Precautions to be taken in handling:

Wear personal protective equipment. Ensure adequate ventilation. Do not touch or walk through spilled material. Keep unnecessary personnel away. No special handling advice required.

Precautions against fire and explosion: The substance is inflammable and non-explosive.

Storage: store in dry, clean and ventilated warehouse. Keep container closed when not in use. Do not store near extreme heat, open flame, or sources of ignition.

Section 8: Exposure Controls/Personal Protection

Exposure Limits:

Exposure limits for this product has been not established.

Ventilation Required:

Ventilation should be effectively remove and prevent buildup of dust general from the handling of this product.

Personal Protective Equipment:

Hand Protection: Wear appropriate chemical resistant gloves.

Skin Protection: Normal working clothing (long sleeved shirts and long pants) is recommended.

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 ≤ 0.30%

H₂O ≤ 0.35%

Solubility: Poorly soluble in water

Vapor Density (Air=1): Not applicable.

Vapor Pressure (mm Hg): Not applicable.

Volatility: Not available.

Flammable Limits, %(V): Not flammable

Section 10: Stability and Reactivity

Stability: The product is stable.

Conditions to Avoid: Incompatible materials

Incompatibility with various substances: Material reacts with strong acids and caustic solutions

Corrosivity: Non-corrosive in presence of glass.

Hazardous Polymerization: hazardous polymerization will not occur



Section 11: Toxicological information

Acute Inhalation: LD50 (rat) > 2000 mg/kg bw

Ingestion: LowAcute Dermal:LC50 (4 hs) : > 2.3 mg/L air

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: aluminium hydroxide is not a skin sensitizer.

Reproductive Toxicity: Foetal toxicity observed at dose causing maternal toxicity LOAEL in rabbits: 1000mg/kg/day.

Aspiration hazard: NOAEC (subchronic, rat) 70 mg A1/m3 as aluminum oxide.

Section 12: Ecological information

Ecotoxicity: This product has not known eco-toxicological effects.

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 bioaccumulate.

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.

US EPA RCRA (40 CFR 261): aluminum hydroxide is not listed under any sections of the Federal Resource Conservation and Recovery Act.

NPRI (Canada): aluminum hydroxide is not listed on the Canadian National Pollutant Release Inventory.

Section 14: Transport information

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

GGVE/RID: non-regulated.

GGVS/ADR: non-regulated.

ADNR: non-regulated.

Special Provisions for Transport: Not Applicable.

IMO International Maritime Dangerous Goods Code:

The substance is not subject to IMO IMDG Code.

Section 15: Regulatory Information

Federal and State Regulations: TSCA 8(b) inventory: Aluminum Hydroxide

EC Classification for the substance/preparation:

Symbol: This product does not need to be labeled in accordance with EC Directives or respective national laws.

Risk Phrase: None

Safety Phrase: None



WHMIS(Canada): Not controlled under WHMIS(Canada)

DSCL(EEC): This product is not classified according to the EU regulations.

Section 16: 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.

Date of Revision: January 29, 2026 – This data sheet replaces all previous issues.