

Safety Data Sheet

1. IDENTIFICATION

Product Name:	Aluminium Hydroxide (ATH)
Other Names:	Alumina Hydrate, ATH, Alumina Trihydrate, Trihydrate D'aluminae, Hydrate d'aluminae, Gibbsite, Hydroxide d'aluminum, Alumine hydrate, hydrated alumina, Trioxyde d'aluminum, Aluminum Trihydroxide,
Recommended Use:	Refractory material, abrasive, fire retardant and smoke suppressant for plastics, ceramic material.
Supplier:	Global Chemie ASCC Limited
Street Address:	88/123 Moo 2 Bangpoo Industrial Estate (North), Phraek Sa Mai, Mueang Samutprakan, Samutprakan 10280
Telephone:	+66 2324 6888
Fax:	+66 2324 6898-99
Emergency phone:	+66 2324 6888 ext.320

2. HAZARDS IDENTIFICATION

Hazardous Nature

This product is not classified as hazardous under GHS criteria.

Hazardous Classification

No data available.

Hazardous Statement

No data available.

GHS Pictograms

No data available.

Hazard Statements

H317: May cause an allergic skin reaction

H320: Causes eye irritation

H335: May cause respiratory irritation

Precautionary Statements

P233: Keep container tightly closed.

P261: Avoid breathing dust.

P264: Wash hands thoroughly after handling.

P285: In case of inadequate ventilation wear respiratory protection.

Response Statements

If on skin

No data available.

If inhaled

No data available.

If swallowed

No data available.

If in eye

No data available.

Storage Statements

No data available.

Disposal Statements

No data available.

Signal Word No signal word**3. COMPOSITION: Information on Ingredients**

Chemical Ingredient	CAS No.	UN No.	Proportion (%w/w)
Aluminum oxide (Al ₂ O ₃)	-	-	<64
Silicon oxide (SiO ₂)	-	-	<0.02
Iron oxide (Fe ₂ O ₃)	-	-	<0.02
Sodium oxide (Na ₂ O)	-	-	<0.4
Loss on ignition (L.O.I)	-	-	<35
Moisture	-	-	<8

Molecular Formula: Al(OH)₃

Molecular weight: No data available.

4. FIRST AID MEASURES**For advice, contact Ramathibodi Poison Center (Phone: 1367) or a doctor.****Ingestion**

Give several glasses of water to drink to dilute. If large amounts were swallowed, get medical advice.

Eye Contact

Immediately flush eyes with plenty of water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get medical attention if irritation persists

Skin Contact

Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention if irritation develops.

Inhalation

Remove to fresh air. Get medical attention for any breathing difficulty.

5. FIRE FIGHTING MEASURES

Shut off product that may 'fuel' a fire if safe to do so. Allow trained personnel to attend a fire in progress, providing firefighters with this Safety Data Sheet. Prevent extinguishing media from escaping to drains and waterways.

Fire

Not considered to be a fire hazard

Explosion

Not considered to be an explosion hazard.

Fire Extinguishing Media

Use any means suitable for extinguishing surrounding fire.

Special Information

Use protection clothing and breathing equipment appropriate for the surrounding fire and to protect against the aluminium hydroxide dust that may be dispersed in the air.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions, protective equipment, and emergency procedures**

Ventilate area of leak or spill. Wear appropriate personal protective equipment.

Spill: Sweep up and containerize for reclamation or disposal. Vacuuming or wet sweeping may be used to avoid dust dispersal.

7. HANDLING AND STORAGE

Precautions for safe handling

Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warning and precautions listed for the product.

Conditions for safe storage

Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Airborne Exposure Limits

Aluminium hydroxide:

-OSHA Permissible Exposure Limit (PEL):

Alpha alumina, 15 mg/m³ total dust, 5 mg/m³ respirable fraction

-ACGIH Threshold Limit Value (TLV):

Aluminium hydroxide, 10 mg/m³ (TWA) inhalable (total) particulate matter containing no asbestos and < 1% crystalline silica, A4

Ventilation System

A system of local and/or general exhaust is recommended to keep employee exposure below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred because it can control the emissions of the contaminant at its source, preventing dispersion of it into the general work area. Please refer to the ACGIH document, Industrial Ventilation, A Manual of Recommended Practices, most recent edition, for details.

Personal Respirators (NIOSH Approved)

If the exposure limit is exceeded and engineering controls are not feasible, a half facepiece particulate respirator (NIOSH type N95 or better filters) may be worn for up to ten times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. A fullface piece particulate respirator (NIOSH type N100 filters) may be worn up to 50 times the exposure limit or the maximum use concentration specified by the appropriate regulatory agency or respirator supplier, whichever is lowest. If oil particles (e.g. lubricants, cutting fluids, glycerine, etc.) use a NIOSH type R or P filter for emergencies or instances where the exposure levels are not known, use a full-facepiece positive-pressure, air-supplier respirator. WARNING: Air purifying respirators do not protect workers in oxygen-deficient atmospheres.

Skin Protection:

Wear protective gloves and clean body-covering clothing.

Eye Protection:

Use chemical safety goggles. Maintain eye wash fountain and quick-drench facilities in work area.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value
Appearance	-	White powder
Odour	-	odorless
pH	-	No data available
Boiling point	°C	2980
Melting point	°C	2000
Flash point	°C	No data available
Flammability	-	No data available
Autoignition Temperature	°C	No data available
Decomposition Temperature	°C	No data available
Lower/Upper Flammability Limits	%V	No data available

Property	Unit of Measurement	Typical Value
Density @ 20°C/4°C	g/cm ³	4.0
Specific Gravity @ 20°C	-	No data available
Viscosity @ 20°C	cSt.s	No data available
Vapor pressure	kPa	No data available
Vapor density	kPa (Air = 1)	No data available
Evaporation Rate	(n-Butyl acetate = 1)	No data available
Water Solubility	g/l	Insoluble in water
Solubility in other solvents Partition coefficient	(n-octanol/water)	No data available
Coefficient of Thermal Expansion	per Deg C	No data available
Particle Characteristics	-	No data available

The values listed are indicative of this product’s physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY

Stability

Stable under ordinary conditions of use and storage.

Hazardous Decomposition Products

No data available.

Hazardous polymerization

Will not occur.

Incompatibilities

Chlorine trifluoride, Ethylene oxide.

Conditions to avoid

Incompatibles.

Reactivity

No (Pure/Solid)

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

No LD50/LC50 information found relating to normal routes of occupational exposure. Investigated as a tumorigen.

No LD50/LC50 information found relating to normal routes of occupatioan.

Acute Toxic: Yes

Chronic: No

12. ECOLOGICAL INFORMATION

Environmental Fate

No data available.

Environmental Toxicity

No data available.

13. DISPOSAL CONSIDERATIONS

Disposal: Whatever cannot be saved for recovery, or recycling should be managed in an appropriate and approved waste disposal facility. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal regulations. Dispose of container and unused contents in accordance with federal, state and local requirements.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN. Number	Not Regulated	UN. Number	Not Regulated	UN. Number	Not Regulated
Class/Item	Not Regulated	Class/Item	Not Regulated	Class/Item	Not Regulated
Hazard Symbol	Not Regulated	Hazard Symbol	Not Regulated	Hazard Symbol	Not Regulated
Proper Shipping Name	Not Regulated	Proper Shipping Name	Not Regulated	Proper Shipping Name	Not Regulated
Packing Group	Not Regulated	Packing Group	Not Regulated	Packing Group	Not Regulated
		Marine Pollutant	Not Regulated		

15. REGULATORY INFORMATION

Chemical Inventory Status – Part 1			
TSCA	EC	Japan	Australia
Yes	Yes	Yes	Yes

Chemical Inventory Status – Part 2				
Canada	Korea	DSL	NDSL	Phil
No data available	Yes	Yes	No	Yes

Federal, State & International Regulations – Part 1			
SARA 302	SARA 313	RQ	TPQ
No	No	Yes	No

Federal, State & International Regulations – Part 2		
RCRA	TSCA	CERCLA 261.33 8(d)
No	No	No

Chemical weapons convention	TSCA 12(b)	CDTA
No	No	No

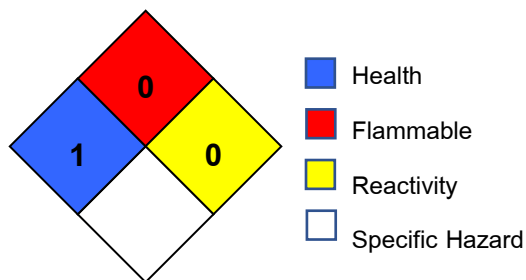
Australian Hazchem Code: None allocated.

Poison Schedule: None allocated.

WHMIS: This MSDS has been prepared according to th hazard criteria of the controlled products rugulations(CPR) and the MSDS contains all of the information required by the CPR.

16. OTHER INFORMATION

National Fire Protection Association (USA) :



SDS Distribution : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

Prepared By : Quality Control Department / Global Chemie ASCC Limited

Abbreviations:

No data available.

References:

- Supplier Material Safety Data Sheets

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. No warranty and guarantee are expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product for further information, please contact Global Chemie ASCC Limited.