

Revision date: 08-08-2014

# SAFETY DATA SHEET

# 1. Identification

Product identifier: Aluminum Hydroxide

Other means of identification Product No.: 0518, 21615

Recommended use and restriction on use

Recommended use: Not available. Restrictions on use: Not known.

## Manufacturer/Importer/Supplier/Distributor information

Manufacturer

Company Name: Avantor Performance Materials, Inc. Address: 3477 Corporate Parkway, Suite 200

Center Valley, PA 18034

Telephone:

Customer Service: 855-282-6867

Fax:

Contact Person: Environmental Health & Safety e-mail: info@avantormaterials.com

**Emergency telephone number:** 

24 Hour Emergency: 908-859-2151

Chemtrec: 800-424-9300

# 2. Hazard(s) identification

Hazard classification

Not classified

Label elements

Hazard symbol: No symbol

Signal word: No signal word.

Hazard statement: Not applicable

Precautionary statement Not applicable

Other hazards which do not

result in GHS classification:

None.

# 3. Composition/information on ingredients

## **Substances**

Chemical identity	Common name and synonyms	CAS number	Content in percent (%)*
ALUMINUM HYDROXIDE		21645-51-2	98 - 100%

<sup>\*</sup> All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.



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### 4. First-aid measures

General information: Get medical advice/attention if you feel unwell. Show this safety data sheet

to the doctor in attendance.

Ingestion: Rinse mouth thoroughly. Get medical attention if symptoms occur.

Inhalation: Move to fresh air. Get medical attention if symptoms persist.

Skin contact: Wash skin thoroughly with soap and water. Get medical attention if irritation

persists after washing. Wash contaminated clothing before reuse.

Eye contact: Flush thoroughly with water. If irritation occurs, get medical assistance.

Most important symptoms/effects, acute and delayed

Symptoms: May cause irritation to skin, eyes, and respiratory tract.

Indication of immediate medical attention and special treatment needed

Treatment: Treat symptomatically.

# 5. Fire-fighting measures

General fire hazards: The product is non-combustible.

Suitable (and unsuitable) extinguishing media

Suitable extinguishing

media:

Water spray, fog, CO2, dry chemical, or regular foam.

Unsuitable extinguishing

media:

None known.

Specific hazards arising from

the chemical:

During fire, gases hazardous to health may be formed. Contact with strong

oxidizers may cause fire.

Special protective equipment and precautions for firefighters

Special fire fighting

procedures:

Move containers from fire area if you can do so without risk. Use water spray to keep fire-exposed containers cool. Cool containers exposed to

flames with water until well after the fire is out.

Special protective equipment

for fire-fighters:

Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in

enclosed spaces, SCBA.

#### 6. Accidental release measures

Personal precautions, protective equipment and emergency procedures:

Keep unauthorized personnel away. Use personal protective equipment. See Section 8 of the MSDS for Personal Protective Equipment.

Methods and material for containment and cleaning

Avoid dust formation. Sweep up and place in a clearly labeled container for chemical waste. Clean surface thoroughly to remove residual

contamination.

**Notification Procedures:** Prevent entry into waterways, sewer, basements or confined areas. Inform

authorities if large amounts are involved.



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**Environmental precautions:** Prevent further leakage or spillage if safe to do so. Avoid discharge into

drains, water courses or onto the ground.

## 7. Handling and storage

**Precautions for safe handling:** Avoid generation and spreading of dust. Ground/bond container and

receiving equipment. Use personal protective equipment as required. Avoid

contact with eyes, skin, and clothing. Avoid inhalation of dust. Wash

thoroughly after handling.

Conditions for safe storage,

including any incompatibilities:

Keep containers tightly closed. Store in cool, dry place. Store in a well-

ventilated place.

# 8. Exposure controls/personal protection

#### **Control parameters**

Occupational exposure limits

Chemical identity	Туре	Exposure Limit values	Source
ALUMINUM HYDROXIDE - Respirable fraction.	TWA	1 mg/m3	US. ACGIH Threshold Limit Values (2011)

Appropriate engineering

controls

No data available.

## Individual protection measures, such as personal protective equipment

**General information:** Good general ventilation (typically 10 air changes per hour) should be used.

Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls

to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an

acceptable level. Use explosion-proof ventilation equipment.

**Eye/face protection:** Use tight fitting goggles if dust is generated.

Skin protection

**Hand protection:** Wear protective gloves.

Other: Wear suitable protective clothing.

**Respiratory protection:** In case of inadequate ventilation use suitable respirator.

**Hygiene measures:** Always observe good personal hygiene measures, such as washing after

handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants.

Provide eyewash station and safety shower.

## 9. Physical and chemical properties

#### **Appearance**

Physical state: Solid
Form: Powder.
Color: White
Odor: Odorless

Odor threshold: No data available.

pH: > 7
Melting point/freezing point: 300 °C



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Initial boiling point and boiling range:No data available.Flash Point:No data available.Evaporation rate:No data available.Flammability (solid, gas):No data available.

Upper/lower limit on flammability or explosive limits

Flammability limit - upper (%):

Flammability limit - lower (%):

Explosive limit - upper (%):

Explosive limit - lower (%):

No data available.

Vapor pressure:

No data available.

Vapor density:

No data available.

2.42 (20 °C)

Solubility(ies)

Solubility in water: Practically Insoluble
Solubility (other): No data available.

Partition coefficient (n-octanol/water): No data available.

Auto-ignition temperature: No data available.

Decomposition temperature: No data available.

Viscosity: No data available.

Other information

Molecular weight: 77.99 g/mol (AIH3O3)

## 10. Stability and reactivity

**Reactivity:** No dangerous reaction known under conditions of normal use.

**Chemical stability:** Material is stable under normal conditions.

Possibility of hazardous

reactions:

Hazardous polymerization does not occur.

Conditions to avoid: Contact with incompatible materials. Heat, sparks, flames. Avoid dust

formation. Moisture.

**Incompatible materials:** Strong oxidizing agents. Strong acids.

**Hazardous decomposition** 

products:

Thermal decomposition or combustion may liberate carbon oxides and

other toxic gases or vapors.

# 11. Toxicological information

#### Information on likely routes of exposure

**Ingestion:** May cause irritation of the gastrointestinal tract.

**Inhalation:** May cause irritation to the respiratory system.

**Skin contact:** May cause irritation.

**Eye contact:** May cause temporary eye irritation.

## Information on toxicological effects

Acute toxicity (list all possible routes of exposure)

Oral

**Product:** LD 50 (Rat): > 5,000 mg/kg



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**Dermal** 

**Product:** No data available.

Inhalation

**Product:** No data available.

Repeated dose toxicity

**Product:** No data available.

Skin corrosion/irritation

**Product:** May cause skin irritation.

Serious eye damage/eye irritation

**Product:** May irritate eyes.

Respiratory or skin sensitization

**Product:** Not a skin sensitizer.

Carcinogenicity

**Product:** This substance has no evidence of carcinogenic properties.

IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:

No carcinogenic components identified

**US. National Toxicology Program (NTP) Report on Carcinogens:** 

No carcinogenic components identified

US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050):

No carcinogenic components identified

Germ cell mutagenicity

In vitro

**Product:** No mutagenic components identified

In vivo

**Product:** No mutagenic components identified

Reproductive toxicity

**Product:** No components toxic to reproduction

Specific target organ toxicity - single exposure

**Product:** No data available.

Specific target organ toxicity - repeated exposure

**Product:** No data available.

**Aspiration hazard** 

**Product:** Not classified

Other effects: None known.

# 12. Ecological information

## **Ecotoxicity:**

#### Acute hazards to the aquatic environment:

Fish

**Product:** No data available.

## **Aquatic invertebrates**



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**Product:** No data available.

Chronic hazards to the aquatic environment:

**Fish** 

**Product:** No data available.

**Aquatic invertebrates** 

**Product:** No data available.

**Toxicity to Aquatic Plants** 

**Product:** No data available.

Persistence and degradability

Biodegradation

**Product:** There are no data on the degradability of this product.

**BOD/COD** ratio

**Product:** No data available.

**Bioaccumulative potential** 

**Bioconcentration factor (BCF)** 

**Product:** No data available on bioaccumulation.

Partition coefficient n-octanol / water (log Kow)
Product:
No data available.

**Mobility in soil:** No data available.

Other adverse effects: The product components are not classified as environmentally hazardous.

However, this does not exclude the possibility that large or frequent spills

can have a harmful or damaging effect on the environment.

13. Disposal considerations

**Disposal instructions:** Discharge, treatment, or disposal may be subject to national, state, or local

laws.

**Contaminated packaging:** Since emptied containers retain product residue, follow label warnings even

after container is emptied.

# 14. Transport information

DOT

Not regulated.

**IMDG** 

Not regulated.

IATA

Not regulated.

# 15. Regulatory information

## **US** federal regulations

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)



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## US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050)

None present or none present in regulated quantities.

## CERCLA Hazardous Substance List (40 CFR 302.4):

None present or none present in regulated quantities.

#### Superfund amendments and reauthorization act of 1986 (SARA)

### Hazard categories

X Acute (Immediate) X Chronic (Delayed) Fire Reactive Pressure Generating

# SARA 302 Extremely hazardous substance

None present or none present in regulated quantities.

#### SARA 304 Emergency release notification

None present or none present in regulated quantities.

#### SARA 311/312 Hazardous chemical

Chemical identityThreshold Planning QuantityALUMINUM HYDROXIDE500 lbs

#### SARA 313 (TRI reporting)

None present or none present in regulated quantities.

## Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)

None present or none present in regulated quantities.

# Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130):

None present or none present in regulated quantities.

## **US state regulations**

## **US. California Proposition 65**

No ingredient regulated by CA Prop 65 present.

#### US. New Jersey Worker and Community Right-to-Know Act

No ingredient regulated by NJ Right-to-Know Law present.

# **US. Massachusetts RTK - Substance List**

No ingredient regulated by MA Right-to-Know Law present.

## **US. Pennsylvania RTK - Hazardous Substances**

No ingredient regulated by PA Right-to-Know Law present.

## US. Rhode Island RTK

No ingredient regulated by RI Right-to-Know Law present.



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#### **Inventory Status:**

Australia AICS: Canada DSL Inventory List: EINECS, ELINCS or NLP: Japan (ENCS) List:

China Inv. Existing Chemical Substances: Korea Existing Chemicals Inv. (KECI):

Canada NDSL Inventory: Philippines PICCS: US TSCA Inventory:

New Zealand Inventory of Chemicals:

Japan ISHL Listing:

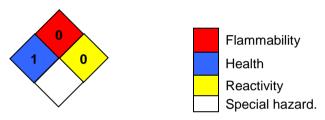
Japan Pharmacopoeia Listing:

On or in compliance with the inventory Not in compliance with the inventory. On or in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory On or in compliance with the inventory

Not in compliance with the inventory.

# 16.Other information, including date of preparation or last revision

# **NFPA Hazard ID**



Hazard rating: 0 - Minimal; 1 - Slight; 2 - Moderate; 3 - Serious; 4 - Severe

Issue date: 08-08-2014

**Revision date:** No data available.

Version #: 1.0

**Further information:** No data available.



ANTOR

Revision date: 08-08-2014

Version: 1.0

#### Disclaimer:

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