

## 1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

### 1.1. Product identifier

**Product Code** 839

**Product Name** ALUMINUM TRIHYDROXIDE

**Contains** Aluminum hydroxide, CAS 21645-51-2

**Synonyms** AB Dxx Series, BayGranite(R) Series, Dry Hydrate, FlameGard(R) Series

### 1.2. Relevant identified uses of the substance or mixture and uses advised against

#### Recommended Use

Fire retarding agent, Filler, Water treatment

#### Uses advised against

No information available

### 1.3. Details of the supplier of the safety data sheet

Almatis GmbH Lyoner Str. 9 60528 Frankfurt Germany	Almatis, Inc. P.O. Box 300 4701 Alcoa Road Bauxite, AR 72022 USA	Almatis, Inc. P.O. Box 1601 1532 Rocky Face R/R St. Rocky Face (Dalton), GA 30740 USA	Almatis Burnside, Inc. 41237 Hwy 22 Burnside, LA 70738, USA
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For further information, please contact

### 1.4. Emergency telephone number

Almatis: +1 501-776-4677

#### CHEMTREC:

+1-703-527-3887 (INTERNATIONAL)  
+1-800-424-9300 (NORTH AMERICA)

## 2. HAZARDS IDENTIFICATION

### 2.1. - Classification of the substance or mixture

#### REGULATION (EC) No 1272/2008

The product is not classified as dangerous according to Regulation (EC) No. 1272/2008

#### Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

#### R-Phrases

Not applicable

#### GHS Classification

The product is not classified as hazardous according to GHS

### 2.2. Label Elements

#### Symbol(s)

Not applicable

#### Signal Word

None

**Hazard Statements**

None

**Precautionary Statements**

P261 - Avoid breathing dust/fume/gas/mist/vapors/spray

P280 - Wear eye protection/ face protection

P285 - In case of inadequate ventilation wear respiratory protection

P305 + P351 + P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P302 + P352 - IF ON SKIN: Wash with plenty of soap and water

**2.3. Other information**

No information available

**3. COMPOSITION/INFORMATION ON INGREDIENTS****3.1. Substances**

Chemical Name	CAS No.	Weight-%	REACH Reg. No
Aluminum hydroxide	21645-51-2	>90	01-2119529246-39-0047

**4. FIRST AID MEASURES****4.1. Description of first aid measures**

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

**Skin Contact** Wash skin with soap and water.

**Ingestion** Rinse mouth

**Inhalation** Remove to fresh air

**General Advice** If symptoms persist, call a physician  
Show this safety data sheet to the doctor in attendance

**4.2. Most important symptoms and effects, both acute and delayed**

No information available

**4.3. Indication of any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically

**5. FIRE-FIGHTING MEASURES****5.1. Extinguishing media****Suitable Extinguishing Media**

The product itself does not burn

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment

**Extinguishing media which must not be used for safety reasons**

No information available

**5.2. Special hazards arising from the substance or mixture****Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases**

None in particular.

**5.3. Advice for firefighters**

**Special protective equipment for fire-fighters**

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

## 6. ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protective equipment

Avoid dust formation

**6.2. Environmental precautions**

No special environmental precautions required

**6.3. Methods and material for containment and cleaning up**

Recover product. Place into appropriate container for disposal.

**Methods for Cleaning Up**

Shovel or sweep up

## 7. HANDLING AND STORAGE

**7.1. Precautions for Safe Handling****Handling**

Provide appropriate exhaust ventilation at places where dust is formed

**General Hygiene Considerations**

Handle in accordance with good industrial hygiene and safety practice

**Exposure scenario**

No information available

**7.2. Conditions for safe storage, including any incompatibilities**

Keep in a dry place

Protect from moisture.

**7.3. Specific end use(s)**

No information available

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

**8.1. Control parameters**

Chemical Name	EU	United Kingdom	France	Spain	Germany OEL (TWA)
Aluminum hydroxide 21645-51-2					3.0 mg/m <sup>3</sup> 6.0 mg/m <sup>3</sup> (a)

(a) GOEL - Germany - TRGS 900 - Occupational Exposure Limits - TWAs, (a) exempt facilities listed in 2.4(8) and (9)

Component	OSHA PEL	ACGIH TWA
Aluminum hydroxide 21645-51-2 (>90)	= 15 mg/m <sup>3</sup> TWA total dust = 5 mg/m <sup>3</sup> TWA respirable fraction	1 mg/m <sup>3</sup> TWA (respirable fraction)

**Derived No Effect Level (DNEL)** 3 mg/m<sup>3</sup>, respirable, 8 hour TWA

**Predicted No Effect Concentration (PNEC)** No information available

**8.2. Exposure controls**

<b>Engineering Controls</b>	Ensure adequate ventilation, especially in confined areas
<b>Personal protective equipment</b>	
<b>Eye Protection</b>	Safety glasses with side-shields
<b>Skin Protection</b>	No special protective equipment required.
<b>Hand Protection</b>	No special protective equipment required.
<b>Respiratory Protection</b>	In case of insufficient ventilation, wear suitable respiratory equipment When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
<b>Environmental exposure controls</b>	No information available

## 9. PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on basic physical and chemical properties

<b>Physical State</b>	Powder
<b>Color</b>	White
<b>Odor</b>	None
<b>pH</b>	8.5 - 10.2
<b>Flash point (°C) DEGREES</b>	Not applicable
<b>Autoignition temp (°F) DEGREES</b>	Does not ignite
<b>Boiling point/range (°C) DEGREES</b>	Not determined
<b>Melting Point/Range</b>	
<b>Melting point (°C) DEGREES</b>	Decomposes before melting
<b>Solubility</b>	Soluble in strong acids and strong bases
<b>Density</b>	2.42 g/cm <sup>3</sup>
<b>Bulk Density</b>	0.15-1.3 g/cm <sup>3</sup>

## 10. STABILITY AND REACTIVITY

### 10.1. Reactivity

None under normal processing

### 10.2. Chemical Stability

Stable under normal conditions

### 10.3. Possibility of Hazardous Reactions

Heating the material above 200°C will result in a sudden release of water vapor (steam). Precautions must be taken to dissipate the vapor and any pressure that may be generated. A sudden increase in pressure could cause damage or explosion in enclosed equipment.

### 10.4. Conditions to Avoid

No information available

### 10.5. Incompatible materials

None under normal processing

### 10.6. Hazardous Decomposition Products

Steam

## 11. TOXICOLOGICAL INFORMATION

### 11.1. Information on toxicological effects

#### **Acute Toxicity**

<b>Acute oral toxicity</b>	Conclusive but not sufficient for classification
<b>Acute dermal toxicity</b>	Conclusive but not sufficient for classification
<b>Acute inhalation toxicity</b>	Conclusive but not sufficient for classification

**Chronic Toxicity**

<b>Irritation</b>	Conclusive but not sufficient for classification
<b>Corrosivity</b>	Conclusive but not sufficient for classification
<b>Sensitization</b>	Conclusive but not sufficient for classification
<b>Mutagenic Effects</b>	Conclusive but not sufficient for classification
<b>Carcinogenic effects</b>	Conclusive but not sufficient for classification
<b>Reproductive Effects</b>	Conclusive but not sufficient for classification
<b>Developmental Effects</b>	Conclusive but not sufficient for classification
<b>Aspiration Hazard</b>	Conclusive but not sufficient for classification

## 12. ECOLOGICAL INFORMATION

**12.1. Toxicity****Ecotoxicity effects**

Not water endangering  
(WGK: nwg)

**12.2. Persistence and degradability**

No information available

**12.3. Bioaccumulative potential.**

No information available

**12.4. Mobility in soil**

No information available

**12.5. Results of PBT and vPvB assessment**

No information available

**12.6. Other adverse effects**

None known

## 13. DISPOSAL CONSIDERATIONS

**13.1. Waste treatment methods****Waste from Residues/Unused Products**

Disposal should be in accordance with applicable regional, national and local laws and regulations

**Contaminated Packaging**

Empty containers should be taken to an approved waste handling site for recycling or disposal

## 14. TRANSPORT INFORMATION

**Note:** Not classified as dangerous in the meaning of transport regulations

**IMDG/IMO** Not regulated.

**RID** Not regulated.

**ADR** Not regulated.

**ICAO** Not regulated.

**IATA** Not regulated.

## 15. REGULATORY INFORMATION

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****International Inventories**

<b>TSCA</b>	Complies
<b>EINECS/ELINCS</b>	Complies
<b>DSL/NDSL</b>	Complies
<b>PICCS</b>	Complies
<b>ENCS</b>	Complies
<b>IECSC</b>	Complies
<b>AICS</b>	Complies
<b>KECL</b>	Complies

**Legend**

**TSCA** - United States Toxic Substances Control Act Section 8(b) Inventory

**EINECS/ELINCS** - European Inventory of Existing Chemical Substances/European List of Notified Chemical Substances

**DSL/NDSL** - Canadian Domestic Substances List/Non-Domestic Substances List

**PICCS** - Philippines Inventory of Chemicals and Chemical Substances

**ENCS** - Japan Existing and New Chemical Substances

**IECSC** - China Inventory of Existing Chemical Substances

**AICS** - Australian Inventory of Chemical Substances

**KECL** - Korean Existing and Evaluated Chemical Substances

**15.2. Chemical Safety Assessment**

A Chemical Safety Assessment has been carried out

**16. OTHER INFORMATION****Key literature references and sources for data**

[www.ChemADVISOR.com/](http://www.ChemADVISOR.com/)

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Revision 6, April 2008  
Section 1, changed contact address  
Section 16, added email address and revision history  
Revision 7, May 2011  
Update to format  
Revision 8, August 2012  
Removed products no longer manufactured by Almatis, contact Huber Specialty Hydrates LLC for additional information on discontinued products  
Revision 9, February 2014  
Section 8, revised ACGIH TWA  
Revision 10, August 2014  
Section 8, revised GOEL  
Revision 11, September 2014  
Section 3, added REACH registration number  
Revision 12, June 2015  
Section 1, added AB Dxx Series and Dry Hydrate to synonyms  
Section 1, added Water treatment  
Section 1, added Burnside location

**Updates**

The most current version of this Safety Data Sheet is available at this URL:  
<http://almatiswv.thewerco.com/private/search.aspx?language=EN>

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This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006

**Disclaimer**

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End of Safety Data Sheet