

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

For further information, please contact

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/vapours/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 AdviceIf symptoms persist, call a doctor
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

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 ³ 6.0 mg/m ³ (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 ³ TWA total dust = 5 mg/m ³ TWA respirable fraction	1 mg/m ³ TWA (respirable fraction)

Derived No Effect Level (DNEL)	3 mg/m ³ , respirable, 8 hour TWA
Predicted No Effect Concentration (PNEC)	No information available
8.2. Exposure controls	
Engineering Controls	Ensure adequate ventilation, especially in confined areas
Personal protective equipment	
Eye Protection	safety glasses with side-shields
Skin Protection	No special protective equipment required
Hand Protection	No special protective equipment required
Respiratory Protection	In case of insufficient ventilation, wear suitable respiratory equipment When workers are facing concentrations above the exposure limit they must use appropriate certified respirators
Environmental exposure controls	No information available

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Physical State	Powder
Colour	White
Odour	None
pH	8.5 - 10.2
Flash point (°C) DEGREES	Not applicable
Autoignition temp (°F) DEGREES	does not ignite
Boiling point/range (°C) DEGREES	Not determined
Melting point/range	
Melting point (°C) DEGREES	Liquid at room temperature
Solubility	Soluble in strong acids and strong bases
Density	2.42 g/cm ³
Bulk Density	0.15-1.3 g/cm ³

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

Incompatible materials

None under normal processing

10.6. Hazardous Decomposition Products

Steam

11. TOXICOLOGICAL INFORMATION

Information on toxicological effects

Acute Toxicity

Acute oral toxicity	Conclusive but not sufficient for classification
Acute dermal toxicity	Conclusive but not sufficient for classification
Acute inhalation toxicity	Conclusive but not sufficient for classification

Chronic Toxicity

Irritation	Conclusive but not sufficient for classification
Corrosivity	Conclusive but not sufficient for classification
Sensitisation	Conclusive but not sufficient for classification
Mutagenic Effects	Conclusive but not sufficient for classification
Carcinogenic effects	Conclusive but not sufficient for classification
Reproductive Effects	Conclusive but not sufficient for classification
Developmental Effects	Conclusive but not sufficient for classification
Aspiration Hazard	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

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

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

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Revision Summary

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 Almatris, 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://almatriswv.thewerco.com/private/search.aspx?language=EN>

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

Disclaimer

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End of Safety Data Sheet