SAFETY DATA SHEET

Preparation Date 02-Apr-2012 **Revision Date** 21-Aug-2012 **Revision Number** 8

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	BayGranite(R) Series, FlameGard(R) Series

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

Recommended Use
Fire retarding agent, Filler

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

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 EU Directives 67/548/EEC or 1999/45/EC

Not classified

R -phrase(s)
Not applicable

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	EINECS	CAS-No	Weight %	REACH No.
Aluminum hydroxide	244-492-7	21645-51-2	>90	Not registered

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 Move 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 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. FIRE-FIGHTING MEASURES

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 materials 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)

Chemical Name	OSHA PEL	ACGIH TWA

Chemical Name	OSHA PEL	ACGIH TWA
Aluminum hydroxide 21645-51-2	= 15 mg/m^3 TWA total dust = 5 mg/m^3 TWA respirable fraction	10mg/m^{3}TWA particulate matter containing no asbestos and < 1% crystalline silica

Derived No Effect Level (DNEL) 3 mg/m³, 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

9.1. Information on basic physical and chemical properties

Physical State	Powder
Color	White
Odor	None
pH	8.5 - 10.2
Flash Point	Not applicable
Autoignition temp (°F) DEGREES	Does not ignite
Boiling Point/Range	Not determined
Melting Point/Range	Decomposes before melting
Solubility	soluble in strong acids and strong bases
Density	2.42 g/cm3
Bulk Density	0.15-1.3 g/cm3

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

10. STABILITY AND REACTIVITY

None under normal processing

10.6. Hazardous Decomposition Products
Steam

11. TOXICOLOGICAL INFORMATION

11.1. 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
Sensitization	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

13.1. Waste treatment methods
Waste from Residues / Unused Products
Dispose of in accordance with local regulations

Contaminated Packaging
Empty containers should be taken for local recycling, recovery or waste 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 Commercial Chemical Substances/EU 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 Revison 8, August 2012 Removed products no longer manufacutured by Almatis, contact Huber Specialty Hydrates LLC for additional information on discontinued products

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

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End of Safety Data Sheet