



# SAFETY DATA SHEET

Preparation Date 06-Feb-2012

Revision Date 16-Jan-2014

Revision Number 16

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

### 1.1. Product identifier

**Product Code** 387

**Product Name** CALCINED ALUMINA (Ground and Unground)

**Contains** Aluminum oxide, CAS 1344-28-1

**Synonyms** A-Aluminas, AB-Aluminas, CL-Aluminas, CT-Aluminas, CTC-Aluminas, E-SY 1000(TM), E-SY 3000(TM), Flux Grade Alumina, Gilox, HVA, IS-Aluminas, LS-Aluminas, POL-Aluminas, Polishing Grade Aluminas, RG-Aluminas, SC-Aluminas, WRA, Exception: CTC55 - see Material Safety Data Sheet 1000, Exception: CT3000 SDP - see Material Safety Data Sheet 1259

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

**Recommended Use**  
Adsorbent, Ceramics, Filler, Polishing agent, Refractory

**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 GmbH  
Giulinistrasse 2  
67065 Ludwigshafen  
Germany

Almatis, Inc.  
P.O. Box 300  
4701 Alcoa Road  
Bauxite, AR 72022 USA

Almatis, Inc.  
501 West Park Road  
Leetsdale, PA 15056 USA

Almatis Alumina Pvt. Ltd.  
Falta Industrial Growth Centre,  
Sec III  
24-Parganas South, West  
Bengal  
Falta, India

Qingdao Almatis Co., Ltd.  
Box 150, Sunshine Tower  
61 Hongkong Middle Road  
Qingdao 266071  
P.R. China

Almatis Burnside, Inc.  
41237 Hwy 22  
Burnside, LA 70738, USA

**For further information, please contact**  
info@almatis.com

### 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

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**Classification according to EU Directives 67/548/EEC or 1999/45/EC**

Not classified

**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 oxide	215-691-6	1344-28-1	>99	01-2119529248-35-0024 01-2119529248-35-0125 01-2119529248-35-0086 01-2119529248-35-0087

**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**

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**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 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

**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 oxide 1344-28-1			VME: 10 mg/m <sup>3</sup>	VLA-ED: 10 mg/m <sup>3</sup>	3.0 mg/m <sup>3</sup> 6.0 mg/m <sup>3</sup> (a)

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

Component	Italy	Portugal	Netherlands	Finland	Denmark
Aluminum oxide 1344-28-1 (>99)		TWA: 10 mg/m <sup>3</sup>			TWA: 10 mg/m <sup>3</sup>

Chemical Name	OSHA PEL	ACGIH TWA
Aluminum oxide 1344-28-1	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**

**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** When workers are facing concentrations above the exposure limit they must use appropriate certified respirators

**Environmental exposure controls** Avoid dust formation

**9. PHYSICAL AND CHEMICAL PROPERTIES**

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

Physical State	Powder, Granular
Color	White
Odor	None
pH	8 - 10
Flash point (°C) DEGREES	Not applicable
Boiling point/range (°C) DEGREES	2210
Melting point (°C) DEGREES	2000 - 2050
Solubility	Insoluble
Density	2.7-3.94 g/cm <sup>3</sup>
Bulk Density	350-1250 kg/m <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**

None under normal processing.

**10.4. Conditions to Avoid**

None under normal processing

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**10.5. Incompatible materials**

None under normal processing

**10.6. Hazardous Decomposition Products**

None under normal processing

**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

Aquatic toxicity is unlikely due to low solubility

**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**

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**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>	Listed on DSL
<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 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/](http://www.ChemADVISOR.com/)

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<b>Revision Summary</b>	Revision 11, April 2008 Section 1, changed contact address Section 16, added email address and revision history Revision 12, June 2010 Section 1, added additional products to synonyms Revision 13, March 2011 Update to format Revision 14, February 2012 Section 1, added Qingdao Almatiss Ltd. to supplier details Revision 15, July 2013 Section 15, corrected listing for DSL, ENCS, and PICCS Revision 16, January 2014 Section 1, added AB-Aluminas Section 1, added Almatiss Burnside Inc. Section 8, revised ACGIH TWA Section 9, added boiling point and revised melting point
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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