

**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  
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60528 Frankfurt  
GermanyAlmatis GmbH  
Giuliniestr. 2  
67065 Ludwigshafen  
GermanyAlmatis, Inc.  
P.O. Box 300  
4701 Alcoa Road  
Bauxite, AR 72022 USAAlmatis, Inc.  
501 West Park Road  
Leetsdale, PA 15056 USAAlmatis Alumina Pvt. Ltd.  
Falta Industrial Growth Centre,  
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24-Parganas South, West  
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Falta, IndiaQingdao Almatis Co., Ltd.  
Box 150, Sunshine Tower  
61 Hongkong Middle Road  
Qingdao 266071  
P.R. ChinaAlmatis 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

**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**

<b>Eye Contact</b>	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
<b>Skin Contact</b>	Wash skin with soap and water.
<b>Ingestion</b>	Rinse mouth
<b>Inhalation</b>	Move to fresh air
<b>General Advice</b>	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.

**5.3. 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)

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

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

**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**

<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  
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**

**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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**Revision Summary**

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 Almatris 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 Almatris Burnside Inc.  
Section 8, revised ACGIH TWA  
Section 9, added boiling point and revised melting point

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

**Disclaimer**

**The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.**

**End of Safety Data Sheet**