

# SAFETY DATA SHEET

## 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

**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<br>01-2119529248-35-0125<br>01-2119529248-35-0086<br>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<br>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<br>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><br>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<br>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<br>1344-28-1 | 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup><br>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

**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**

**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/NDL       | Listed on DSL |
| 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/NDL - 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**