



Distributed by:  
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# SAFETY DATA SHEET

Revision Number 19

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

### 1.1. Product identifier

**Product Code** 387

**Product Name** CALCINED ALUMINA

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

**Synonyms** A-Aluminas, AB-Aluminas, CL-Aluminas, CT-Aluminas, CTC-Aluminas, E-SY 1000, Flux Grade, Fusion Grade, Gilox, HVA, IS-Aluminas, LS-Aluminas, P-Aluminas, RG-Aluminas, Refractory Grade, SC-Aluminas, Special Grade, 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

Adsorbents, Ceramic, 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  
Giuliniestr. 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 Directive 67/548/EEC or 1999/45/EC

Not classified

**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/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  | CAS No.   | Weight-% | REACH Reg. No  |
|----------------|-----------|----------|--|
| Aluminum oxide | 1344-28-1 | >99      | 01-2119529248-35-0024<br>01-2119529248-35-0125<br>01-2119529248-35-0086<br>01-2119529248-35-0238 |

### 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>     | Remove 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 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

**6.3. 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

**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> | 1.25 mg/m <sup>3</sup><br>6.0 mg/m <sup>3</sup> (a) |

(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> |

| Component      | OSHA PEL   | ACGIH TWA                                     |
|----------------|--|---|
| Aluminum oxide | 15 mg/m <sup>3</sup> TWA (total dust); 5 mg/m <sup>3</sup> | 1 mg/m <sup>3</sup> TWA (respirable fraction) |

|                 |                           |  |
|-----------------|---------------------------|--|
| 1344-28-1 (>99) | 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**

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** RID Not regulated.**ADR** Not regulated Not regulated.**ICAO** Not regulated Not regulated.**IATA** Not regulated 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      | 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 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/](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  
 Revision 17, August 2014  
 Section 8, revised GOEL  
 Revision 18, February 2015  
 Section 1, added Polishing Alumina to product name  
 Section 1, revised synonyms  
 Revision 19, February 2016  
 Section 1, added Fusion, Refractory, and Special Grades

**Updates** The most current version of this Safety Data Sheet is available at this URL:  
<http://almatiswv.thewerco.com/private/search.aspx?language=EN>

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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



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