

**1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING****1.1. Product identifier**

**Product Code** 387

**Product Name** **CALCINED ALUMINA and POLISHING ALUMINA**

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

**Synonyms** A-Aluminas, AB-Aluminas, CL-Aluminas, CT-Aluminas, CTC-Aluminas, E-SY 88, E-SY 1000, Flux Grade, Fusion Grade, Gilox, GMA, HVA, IS-Aluminas, LS-Aluminas, MPC, 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, Filler, Polishing agent, Refractory, Ceramic

**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 Phone: +49 69 9573410	Almatis GmbH Giulinistrasse 2 67065 Ludwigshafen Germany Phone: +49 621 57070	Almatis, Inc. 501 West Park Road Leetsdale, PA 15056 USA Phone: +1 412 630-2800	Almatis, Inc. 4701 Alcoa Road Benton, AR 72015 USA Phone: +1 501 776-4677
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**For further information, please contact**

**E-mail address** info@almatis.com

**1.4. Emergency telephone number**

**Emergency Telephone Number** 3E Global Incident Response Hotline (Almatis access code: 334735)

US: +01 760 476 3962

CHEMTREC: 1(800) 424-9300 (in USA and Canada)  
or Access Code + (703) 527-3887 (international)

**2. HAZARDS IDENTIFICATION****2.1. - Classification of the substance or mixture**

**REGULATION (EC) No 1272/2008**

Not a dangerous substance or mixture according to the Globally Harmonized System (GHS)

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

No data available

**2.2. Label Elements****Symbol(s)**

Not applicable

**Signal word**

None

EUH210 - Safety data sheet available on request

**2.3. Other hazards**

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 01-2119529248-35-0125 01-2119529248-35-0086 01-2119529248-35-0238

**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**

Remove 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 any immediate medical attention and special treatment needed****Notes to Physician**

Treat symptomatically

**5. FIRE-FIGHTING MEASURES****5.1. Extinguishing media****Suitable Extinguishing Media**

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**

Wear self contained breathing apparatus for fire fighting if necessary.

## 6. ACCIDENTAL RELEASE MEASURES

**6.1. Personal precautions, protective equipment and emergency procedures**

Ensure adequate ventilation

Avoid dust formation

**6.2. Environmental precautions**

No special environmental precautions required

**6.3. Methods and material for containment and cleaning up**

Prevent further leakage or spillage if safe to do so.

**Methods for Cleaning Up**

Sweep up and shovel into suitable containers for disposal

**6.4. Reference to other sections**

See Section 12 for additional information.

## 7. HANDLING AND STORAGE

**7.1. Precautions for Safe Handling****Handling**

Ensure adequate ventilation Handle in accordance with good industrial hygiene and safety practice

**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>	1.25 mg/m <sup>3</sup> 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 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 1344-28-1 (>99)	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

### Personal protective equipment

**Eye Protection** Wear safety glasses with side shields (or goggles)

**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
<b>Color</b>	White
<b>Odor</b>	None
<b>pH</b>	Not applicable
<b>Flash point (°C) DEGREES</b>	Not applicable
<b>Melting Point/Range</b>	2000-2050 °C
<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

**Acute toxicity - Oral** Conclusive but not sufficient for classification

**Acute toxicity - Dermal** Conclusive but not sufficient for classification

**Acute toxicity - Inhalation** Conclusive but not sufficient for classification

#### (Dusts/Mists)

**Oral LD50** > 5000 mg/kg (rat)\*\*\*

**Dermal LD50** No effect

Inhalation LC50 > 5 mg/l (rat)\*\*\*

### 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

Not readily biodegradable.

### 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

## 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** 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 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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**Issuing Date** 06-Feb-2012  
**Revision Date** 24-May-2019

**Revision Note**  
Reason for revision Revision 23, March 2018  
Updated Almatis Inc. address  
Updated Prepared By

**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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End of Safety Data Sheet