

# SAFETY DATA SHEET

Issuing Date 06-June-2015

Revision Date 27-Feb-2015

Revision Number 18

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

### 1.1. Product identifier

<b>Product Name</b>	<b>Dazzle 2</b>
<b>Contains</b>	Aluminum oxide, CAS 1344-28-1 Citric Acid, CAS 5949-29-1
<b>Synonyms</b>	A-Aluminas, AB-Aluminas, CL-Aluminas, CT-Aluminas, CTC-Aluminas, E-SY 1000, Flux Grade Alumina, Gilox, HVA, IS-Aluminas, LS-Aluminas, P-Aluminas, RG-Aluminas, SC-Aluminas,

### 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

Apeiron Inc.  
P.O. Box 57  
Mount Vernon, VA 22121  
703-780-0254

**For further information, please contact:**

[info@apeironco.com](mailto:info@apeironco.com)

### 1.4. Emergency telephone number

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)****Signal Word**

Danger

**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

H315 – Causes skin irritation

**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	90% - 95%	01-2119529248-35-0024
Citric Acid	5949-29-1	2% - 5%	01-2119529248-35-0125
			01-2119529248-35-0086
			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 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 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

#### **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

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

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

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/)

**Prepared By** Apeiron Inc.  
P.O. Box 57  
Mount Vernon, VA 22121  
USA  
703-780-0254  
[info@apeironco.com](mailto:info@apeironco.com)

**Issuing Date** 06-June-2015  
**Revision Date** 27-Feb-2015

---

<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 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
-------------------------	---

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

**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**