

## SAFETY DATA SHEET

### SECTION 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifiers

Product name Alumina (Dry Powder/Acid/Basic/Neutral/Polishing Gamal)  
CAS number 1344-28-1  
Synonyms Aluminum oxide; Alundum; morin dyed

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory Chemicals

#### 1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC 12501  
Pauls Valley Road Austin,  
Texas 78737 U.S.A.  
512-668-9918  
Telephone 512-886-4008  
Fax

#### 1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC  
International 1-352-323-3500 INFOTRAC

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### **GHSClassification in accordance with29CFR1910(OSHA HCS)**

Based on available data, the classification criteria are not met

#### 2.2 GHSLabellements, including precautionary statements

None required.

## 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

## SECTION 3: Composition/information on ingredients

### 3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Aluminum oxide	Alundum; morin dyed; Alumina	1344-28-1	100%

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

<b>General advice</b>	Show this sheet to a doctor if medical advice is needed.
<b>If inhaled</b>	Move to fresh air. If breathing is difficult, give oxygen. Get medical attention immediately if symptoms occur.
<b>In case of skin contact</b>	Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.
<b>In case of eye contact</b>	Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes. Obtain medical attention.
<b>If swallowed</b>	Do not induce vomiting. Obtain medical attention.

### 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

Treat symptomatically.

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

**Suitable extinguishing media** Use an extinguishing media appropriate for the surrounding fire.

**Unsuitable extinguishing media** No information available

### 5.2 Specific hazards arising from the substance or mixture

Keep product and empty container away from heat and sources of ignition. Thermal decomposition can lead to release of irritating gases and vapors.

### 5.3 Special protective equipment and precautions for firefighters

As in any fire, wear self-contained breathing apparatus pressure-demand, MSHA/NIOSH (approved or equivalent) and full protective gear.

## 5.4 Further information

**Flash Point** Not applicable.

**Autoignition Temperature** No information available.

### Explosion limits

**Upper** No data available.

**Lower** No data available.

**Sensitivity to Mechanical Impact** No information available.

**Sensitivity to Static Discharge** No information available.

### NFPA

Health	Flammability	Instability	Physical hazards
1	0	1	N/A

## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Use personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

### 6.2 Environmental precautions

See Section 12 for additional ecological information.

### 6.3 Methods and materials for containment and cleaning up

Sweep up and shovel into suitable containers for disposal. Avoid dust formation.

### 6.4 Reference to other sections

See section 8 for personal protective equipment. See section 13 for proper disposal.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Wear personal protective equipment. Ensure adequate ventilation. Avoid dust formation.

#### Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

### 7.2 Conditions for safe storage, including any incompatibilities

#### Storage conditions

Keep containers tightly closed in a dry, cool and well-ventilated place.

#### Incompatibilities

Strong oxidizing agents.

## SECTION 8: Exposure controls/personal protection

### 8.1 Occupational exposure limits

#### US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Type	Value
Aluminum Oxide	Total Dust PEL	15 mg/m <sup>3</sup>
	Respirable Fraction PEL	5 mg/m <sup>3</sup>
	Total Dust TWA	10 mg/m <sup>3</sup>
	Respirable Fraction TWA	5 mg/m <sup>3</sup>

#### US. ACGIH Threshold Limit Values

Component	Type	Value
Aluminum Oxide	TWA	1 mg/m <sup>3</sup>

#### US. NIOSH: Pocket Guide to Chemical Hazards

Component	Type	Value
Aluminum Oxide	-	-

#### Biological occupational exposure limits

No information available.

### 8.2 Exposure controls

#### Appropriate engineering controls

Ensure adequate ventilation, especially in confined areas. Ensure that eyewash stations and safety showers are close to the workstation location.

#### Personal protective equipment

##### Eye/face protection

Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.

##### Skin protection

Wear appropriate protective gloves to prevent skin exposure.

##### Body Protection

Wear appropriate protective clothing to prevent skin exposure.

##### Respiratory protection

Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirator if exposure limits are exceeded or if irritation or other symptoms are experienced.

#### Control of environmental exposure

Handle in accordance with good industrial hygiene and safety practice.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical State	Solid	White
Appearance	Odorless	No data available
Odor	available	No data available
Odor Threshold	available	2000 °C
pH	/	3632 °F 2980 °C
Melting Point/Range	/	5396 °F No data available
Boiling Point/Range	available	No data available
Evaporation Rate	available	
Flammability (solid)		
Flammability or explosive limit		
Upper	No data available	
Lower	No data available	
Vapor Pressure	Negligible	
Vapor Density	No data available	
Density	4	
Solubility	Insoluble in water	
Partition coefficient; n-octanol/water	No data available	
Autoignition Temp	No data available	
Decomposition Temp	No data available	
Viscosity	No data available	
Molecular Formula	Al <sub>2</sub> O <sub>3</sub>	
Molecular Weight	101.96	
VOC Content(%)	No data available	
Oxidizing properties	No data available	

### 9.2 Other safety information

No information available.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

None known, based on information available.

### 10.2 Chemical stability

Stable under normal conditions. Hygroscopic.

### 10.3 Possibility of hazardous reactions

None under normal processing.

### 10.4 Conditions to avoid

Incompatible products.

## 10.5 Incompatible materials

Strong oxidizing agents.

## 10.6 Hazardous decomposition products

None under normal use conditions.

# SECTION 11: Toxicological information

## 11.1 Information on toxicological effects

### Product Information, Component Information

#### Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Aluminum oxide	> 5000 mg/kg (Rat)	Not listed	> 2.3 mg/l 4 h

#### Skincorrosion/irritation

No information available.

#### Serious eye damage/eye irritation

No information available.

#### Respiratory or skin sensitization

No information available.

#### Germ cell mutagenicity

No information available.

#### Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Aluminum oxide	1344-28-1	Not listed				

#### Specific target organ toxicity - single exposure

No information available.

#### Specific target organ toxicity - repeated exposure

No information available.

#### Reproductive toxicity

No information available.

#### Chronic effects

No information available.

## 11.2 Additional Information

The toxicological properties have not been fully investigated.

## SECTION 12: Ecological information

### 12.1 Toxicity

Do not empty into drains.

### 12.2 Persistence and degradability

No information available.

### 12.3 Bio accumulative 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 Endocrine disrupting properties

No information available.

### 12.7 Other adverse effects

No information available.

## SECTION 13: Disposal considerations

### 13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

## SECTION 14: Transport information

### DOT (US)

UN Number	Not regulated
Proper Shipping name	Not regulated
Hazard Class	None
Packaging Group	Not regulated
Technical name	Aluminum Oxide

### IMDG

UN Number	Not regulated
Proper Shipping name	Not regulated
Hazard Class	None

Packaging Group Not regulated  
Technical name Aluminum Oxide

### **IATA**

UN Number Not regulated  
Proper Shipping name Not regulated  
Hazard Class None  
Packaging Group Not regulated  
Technical name Aluminum Oxide

## **SECTION 15: Regulatory information**

### **US federal regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**  
Not listed.

**CERCLA Hazardous Substance List (40 CFR 302.4)**  
Not listed.

**SARA 304 Emergency release notification**  
Not listed.

**OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)**  
Not listed.

### **Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**SARA 302 Extremely hazardous substance**  
Not listed.

**SARA 311/312 Hazardous**  
Not listed.

**SARA 313 (TRI reporting)**  
Aluminum oxide, CAS 1344-28-1: 1.0% Threshold Value.

### **Other federal regulations**

**Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List**  
Not listed.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
Not listed.

**Safe Drinking Water Act**  
Not listed.

**FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace**

Not listed.

**US state regulations**

**US. Massachusetts RTK - Substance List**

Aluminum oxide, CAS 1344-28-1: Listed.

**US. New Jersey Worker and Community Right-to-Know Act**

Aluminum oxide, CAS 1344-28-1: Listed.

**US. Pennsylvania Worker and Community Right-to-Know Law**

Aluminum oxide, CAS 1344-28-1: Listed.

**California Proposition 65**

Not listed.

**SECTION 16: Other information**

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**SECTION 17: Disclaimer**

The information provided on 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 guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as 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 material or in any process, unless specified in the text.