



# SAFETY DATA SHEET

Date Issued- 1/26/2017

SDS no. 5 Micron

## 1. PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT DESCRIPTION** 5 Micron Alumina  
**CHEMICAL NAME** Aluminum Oxide, Calcined Alumina  
**GENERAL USE** Polishing agent, Ceramics  
**SUPPLIER ADDRESS** Osborn  
3440 Symmes Rd. Hamilton  
OH 45015 USA  
**CONTACT NUMBER** 1-513-860-3400  
**EMERGENCY CONTACT** PLANT OPERATIONS  
**EMERGENCY PHONE** 1-513-678-3672  
**24 HOUR EMERGENCY**  
**TELEPHONE NUMBER** CHEMTREC (24 HOURS) 800-424-9300

## 2. HAZARD IDENTIFICATION

### EMERGENCY OVERVIEW

**IMMEDIATE CONCERNS** CAUTION! May cause eye or skin irritation. Avoid breathing dusts.  
Proper protective equipment should be worn. Wash skin after use.

### POTENTIAL HEALTH EFFECTS

Eye: May cause eye irritation  
Skin: May cause mild skin irritation  
Ingestion: Large oral doses may cause irritation  
Inhalation: Avoid breathing dust. Use respiratory protection if ventilation is inadequate.  
Chronic: None expected

### GHS Label requirements

Pictogram -- None  
Signal Word--- None

### Hazard Statement

### Precautionary Statements

P261 Avoid breathing dust  
P264 Wash thoroughly after handling  
P280 Wear protective gloves/protective clothing/eye protection/ face protection  
P302+P352 If on Skin: Wash with soap and water  
P305+P351 If in eyes: Wash cautiously with water for 15 minutes.

## 3. COMPOSITION/INGREDIENT INFORMATION

Ingredients	CAS	PEL/ TLV	Weight %
Aluminum Oxide	1344-28-1	15 mg/M3	100%


#### 4. FIRST AID MEASURES

<b>Inhalation</b>	If exposed to excessive levels of dust, remove to fresh air. Get medical attention if cough, irritation or other symptoms develop.
<b>Skin Contact</b>	Wash with soap and water. Get medical attention if irritation or rash develop.
<b>Eye Contact</b>	Immediately flush eyes with plenty of water for 15 minutes. If abrasive particles are not removed, obtain medical attention.
<b>Ingestion</b>	Do not induce vomiting. Rinse mouth with plenty of water. For larger amounts do not induce vomiting, but give two 12 ounce glasses of water and obtain medical advice.

#### 5. FIRE FIGHTING MEASURES

<b>Flash Point</b>	None
<b>Extinguishing Media</b>	Use fire extinguishing media appropriate for the surrounding fire.
<b>Fire fighting Procedure</b>	Use fire fighting method appropriate for the source of the fire.
<b>Special Protective Equipment</b>	As in any fire, wear self contained breathing apparatus (pressure-demand, MSHA/NIOSH approved or equivalent) and full protective gear.
<b>Hazardous Combustion Products</b>	None known

#### 6 ACCIDENTAL RELEASE MEASURES

**Environmental Precautions** Avoid dust formation. Use adequate ventilation or a respirator if dust is present.

**Methods for Clean up** Sweep or Scoop up material for reuse or reclaim if possible,  
otherwise place in a disposal container for proper disposition.

#### 7. HANDLING AND STORAGE

**Handling** Prevent dust formation. Use adequate ventilation or a respirator if dust is present.

**Storage** Keep material dry and bags or containers closed  
Material is incompatible with ethylene oxide or chlorine trifluoride.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Exposure Limit Values	15 mg/M3 as alumina dust
Engineering Measures	Ventilation to keep dust level at exposure limits
Hygiene Measures	
Respiratory Protection	Wear a dust mask
Hand Protection	Wear gloves
Eye Protection	Wear safety glasses with side shields or goggles
Skin Protection	Wear long sleeve shirt. Wash with soap and water before eating or after shift

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid	Solubility in Water	None
Color	White	Flash Point	none
Boiling Point	2980 C	Vapor Density	N/A
Melting Point	2050 C	Evaporation Rate	N/A
Specific Gravity	3.5 gr/cm	Odor	none
pH	8.0-10.0	VOC	None
Autoignition Temperature	N/A		

## 10. STABILITY AND REACTIVITY

Stability	Product is stable
Conditions to Avoid	None in normal use
Incompatible Materials	Ethylene Oxide and chlorine trifluoride
Hazardous Decomposition Products	None in normal use
Hazardous Polymerization	Will Not occur

## 11. TOXICOLOGICAL INFORMATION

Eyes	May cause irritation from abrasion.
Skin Contact	Non corrosive
Skin Absorption	Not likely
Inhalation	LC50- 7.6 mg/L rat
Swallowing	LD 50--> 5000 mg/kg (rat)

## 12. ECOLOGICAL INFORMATION

Ecological Information	Toxicity--- LC50= > 100 mg/l fish EC50=> 100 mg/L Algae
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Bioaccumulative Potential	Bioaccumulation is unlikely
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Comments	This product is not believed to be toxic to aquatic life.
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13. DISPOSAL CONSIDERATIONS

General	If discarded, the material in its original unused form is not a RCRA hazardous waste. Disposal should be in accordance with State and Local regulations for the disposal of non-hazardous waste.
Packaging	Dispose in clean receptical or box.

14. TRANSPORTATION INFORMATION

DOT Classification	Not regulated
IMDG Classification	Not regulated
ICAO Classification	Not regulated

15. REGULATORY INFORMATION

<b>UNITED STATES</b>	
<b>Sara Title III</b>	
313 Reportable Ingredients	None
302/304 Emergency Planning	
Emergency Plan	
<b>CERCLA (Comprehensive Response, Compensation and Liability Act)</b>	
CERCLA RQ	None
<b>EPA HAZARD CATEGORIES</b>	
SARA 311/312	- None
<b>TSCA (Toxic Substance Control Act)</b>	
TSCA Status	- All ingredients are on the TSCA list

16. OTHER INFORMATION

Revision Number	None
Supersedes Date	None
HMIS Rating	1-0-0

Manufacturer Disclaimer	Metal Dusts from the buffing of brass, zinc and especially magnesium or aluminum along with buffing cloth fibers and residues from this material may cause fires or explosions when exposed to a strong ignition source. These fires typically are started in the vent pipes, collector bags or receptacles used in waste gathering from the buffing ventilation system. Make sure that the collectors are changed frequently and the waste kept in a cool, dry environment that is free from sparks or other strong ignition sources. The collection devices should be grounded to minimize static charges.Dust collection receptacles should be designed by engineers who are familiar with the potential hazard of a flammable or explosive dust. If such a fire occurs, fight the fire with a Class D fire extinguisher. Do not use water or a halogenated extinguishing media.
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