

## SAFETY DATA SHEET

Current Revision: 3/9/2016	Prepared By: Ben Ward, Product Engineer
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### I. IDENTIFICATION

<b>EMERGENCY PHONE:</b> <p style="text-align: center;"><b>CHEMTREC- (800) 424-9300</b> <b>CCN: 19481</b></p>	Salem Fabrication Supplies 5901 Gun Club Road Winston-Salem, NC 27103 Information: <b>(800) 234-1982</b>
<b>PRODUCT NAME:</b> Salem Brown Alpha Alumina	
<b>SYNONYMS:</b> Aluminum Oxide	

**Recommended Use:**

Industrial polishing and material removal **Restrictions:**  
N/A

### II. HAZARD IDENTIFICATION

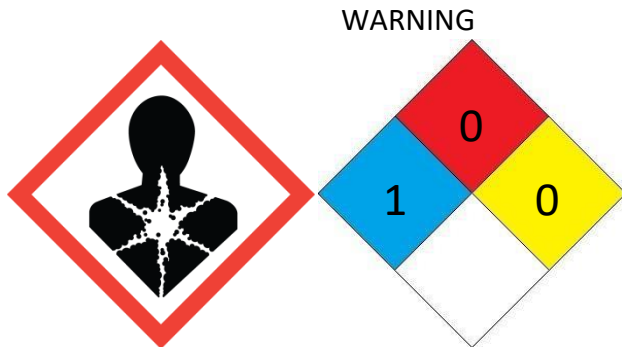
**Classification (§1910.1200):**

Carcinogenicity Cat. 2

**Signal Word/Symbols:**

**NFPA 704**

WARNING



PPE

E

**Hazard Statement:**

GO BEYOND THE EDGE

**NORTH CAROLINA – HQ**

5901 Gun Club Road  
 Winston-Salem, NC 27103  
**Office:** 800.234.1982 | 336.766.1104

**CALIFORNIA**

10125 Shoemaker Avenue  
 Santa Fe Springs, CA 90670  
**Office:** 800.445.6339 | 562.944.6155

**PENNSYLVANIA**

2330 Greensburg Road  
 New Kensington, PA 15068  
**Office:** 724.212.3749

**WASHINGTON**

3801 NE 109th Ave. Suite C  
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Suspected of causing cancer Harmful if swallowed.

May cause minor skin or eye irritation. Particulate may scratch cornea or cause other mechanical eye injury.

If inhaled; may cause respiratory irritation through single use, or cause damage to lungs through prolonged or repeated exposure to concentrations in excess of the PEL or TVL without respiratory protection. This may also decrease the ability of the lungs to clear particulate matter which may cause shortness of breath and increase susceptibility to respiratory disease.

**Precautionary Statement:**

- Wash hands thoroughly after use.
- Wear protective gloves and eye/face protection.
- Do not breathe dust. Do not use compressed air or dry sweeping to remove dust from work areas.
- Wear respiratory protection for concentrations in excess of the PEL or TVL.
- Store in dry area in closed containers.
- Dispose of according to applicable federal, state and local regulation.

**Miscellaneous Hazards:**

N/A

**Unknown Acute Toxicity Statement:**

N/A

**III.COMPOSITION**

CHEMICAL NAME:	COMMON NAMES:	CAS:	% BY WEIGHT:
Alumina	Aluminum Oxide	1344-28-1	92 – 96
Titanium Dioxide		13463-67-7	1 – 4
Silicon Dioxide		7631-86-9	0 – 2
Iron Oxide		1309-37-1	0 – 1.5

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**Classified Impurities and Additives:**

N/A

**IV. FIRST AID MEASURES**

**Inhalation:**

If inhalation of high concentrations occurs, move to fresh air. If breathing has stopped, a certified professional should give CPR. Seek immediate medical attention.

**Skin Contact:**

Wash contaminated area with soap and water. Wash contaminated clothing. Seek medical attention if symptoms persist.

**Eye Contact:**

Flush eyes with lukewarm water for 15 minutes, opening and closing eyelids to ensure adequate rinsing. If redness, irritation, pain, or tearing occurs, seek medical attention.

**Ingestion:**

Do not induce vomiting unless suggested by a doctor. Seek medical attention.

**Symptoms/Effects:**

Irritation

**Level Of Medical Attention Needed:**

Seek medical attention if ingested or systems persist.

**V. FIRE-FIGHTING MEASURES**

**Suitable Extinguishing Media:**

Use media appropriate for surrounding fire.

**Unsuitable Extinguishing Media:**

N/A

**Specific Hazards:**

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N/A

**Special Protective Equipment:**

Firefighters should wear a NIOSH/MSHA approved full-faced self-contained breathing apparatus (SCBA) operated in positive pressure mode, and full turnout or bunker gear.

## VI. ACCIDENTAL RELEASE MEASURES

**Personal Precautions:**

Avoid dust generation. Water mist may be added as necessary to control the level of airborne dusts.

**Protective Equipment:**

Respiratory protection for clean-up personnel depends on the level of exposure anticipated. Use goggles and gloves.

**Emergency Procedures:**

Isolate hazard area and deny entry to unauthorized and/or unprotected personnel.

**Methods for Cleanup/Removal:**

Gently shovel or scoop into clean dry container for later recycle or disposal.

## VII. HANDLING AND STORAGE

**Handling Precautions:**

Prevent formation of dust, and avoid dust inhalation. Use only in well ventilated areas. Any deposit of dust that cannot be avoided must be regularly removed. DO NOT use compressed air or dry sweeping to remove dust from work area. Wash thoroughly with plenty of water.

**Safe Storage Conditions:**

Store in dry area in closed containers. Protect from high humidity and water. Store receptacle in a well ventilated area.

**Incompatibilities:**

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Store away from oxidizing agents. Store away from foodstuffs.

## VIII. EXPOSURE CONTROLS AND PROTECTIVE EQUIPMENT

OSHA PEL:	ACGIH TLV:	OTHER EXPOSURE LIMITS:
Aluminum Oxide: 10mg/m <sup>3</sup> resp fraction Titanium Dioxide: 15mg/m <sup>3</sup> Silicon Dioxide: 16mg/m <sup>3</sup> Iron Oxide 10mg/m <sup>3</sup>	Aluminum Oxide: 10mg/m <sup>3</sup> Titanium Dioxide: 10mg/m <sup>3</sup> Iron Oxide: 5mg/m <sup>3</sup>	N/A

### Appropriate Engineering Controls:

Use general ventilation. Local exhaust may be necessary for processes which generate large quantities of airborne dust. Keep exposures below applicable OSHA PEL's and ACGIH-TLV's.

### Personal Protective Measures:

Under normal working conditions below acceptable exposure guidelines, none is required. For concentrations above the PEL but less than 10X the PEL, a NIOSH/OSHA approved dust mist respirator should be worn.

Protective gloves, as needed, to prevent skin contact.

Safety-glasses with side shields or goggles to prevent dust and particles from entering the eye. See OSHA 29 CFR 1910.133.

Under dusty conditions, employees should wear coveralls or other suitable work clothing. Contaminated clothing must be vacuumed before removal. DO NOT REMOVE dust from clothing by blowing or shaking. Keep away from foodstuff, beverages and feed.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

Brown powder

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<b>Odor:</b> None	<b>Odor Threshold:</b> None	<b>Ph:</b> N/A
<b>Melting/Freezing Point:</b> 3722°F (2050°C)	<b>Boiling Point:</b> N/A	<b>Boiling Range:</b> N/A
<b>Flash Point:</b> N/A	<b>Evaporation Rate:</b> None	<b>Flammability (Solid, Gas):</b> N/A
<b>Upper/Lower Flammability/Explosive Limit:</b> N/A	<b>Vapor Pressure:</b> N/A	<b>Vapor Density:</b> N/A
<b>Relative Density:</b> 3.95	<b>Solubility (ies):</b> Insoluble	<b>Partition Coefficient: NOctanol/Water:</b> N/A
<b>Auto Ignition Temperature:</b> N/A	<b>Decomposition Temperature:</b> N/A	<b>Viscosity:</b> N/A

## X.STABILITY AND REACTIVITY

### Reactivity:

N/A

### Chemical Stability:

Stable under normal ambient conditions of temperature and pressure.

### Possibility of Hazardous Reactions:

Reacts with strong acids, oxidizing agents, and with strong alkali.

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**Conditions to Avoid: Static Discharge, Shock, Vibrations, Etc.**

No further relevant information available.

**Incompatible Materials:**

Reacts with strong acids, oxidizing agents, and with strong alkali.

**Hazardous Decomposition Products:**

Toxic metal oxide smoke.

**XI. TOXICOLOGICAL INFORMATION**

**Possible Exposure Routes (Inhalation Etc.):**

Eye, skin, inhalation, and ingestion.

**Symptoms Related To Toxicological Characteristics:**

May cause respiratory irritation through single use.

May cause damage to lungs or pulmonary disease through prolonged/repeated exposure to dust.

May cause minor skin irritation.

Ingestion of large quantities may result in gastrointestinal irritation and eventually interference with phosphate absorption which results in rickets.

**Delayed, Immediate, and Chronic Effects:**

Minor component titanium dioxide (TiO<sub>2</sub>) is suspected of causing cancer via inhalation.

May cause damage to lungs or pulmonary disease through prolonged/repeated exposure to dust.

**Numerical Toxicity Measurements:**

N/A

**NTP/IARC/OSHA Known Carcinogen:**

N/A

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**XII.ECOLOGICAL INFORMATION**

**Ecotoxicity:**

N/A

**Persistence and Degradability:**

Inorganic, is not eliminable from water by means of biological cleaning processes.

**Bioaccumulative Potential:**

Does not accumulate in organisms.

**Soil Mobility:**

No further relevant information available.

**Other Adverse Effects:**

N/A

**XIII.DISPOSAL CONSIDERATIONS**

**Waste Residue and Disposal:**

Dispose of according to applicable federal, state and local regulations.

**XIV. TRANSPORT INFORMATION**

<p><b>UN Number:</b> N/A</p>	<p><b>UN Proper Shipping Name:</b> N/A</p>	<p><b>Transport Hazard Class (es):</b> N/A</p>
<p><b>Packing Group:</b> N/A</p>	<p><b>Environmental Hazards:</b> N/A</p>	<p><b>Transport in Bulk (Annex LI MARPOL 73/78 and IBC Code)</b> N/A</p>

**Special Precautions:**

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N/A

## XV. REGULATORY INFORMATION

### Environmental/ Health/ Safety:

TSCA: Aluminum Oxide is listed on the TSCA (Toxic Substance Control Act) inventory under CAS# 1344 -28-1.

CALIFORNIA PROP. 65 COMPONENTS: WARNING! This product contains a chemical known to the State of California to cause cancer.

SARA HAZARD CATEGORY: This product has been reviewed according to the EPA Hazard Categories promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and by definition meets the requirements of the following category: *Acute Health Hazard*.

## XVI. OTHER INFORMATION

This information is furnished without warranty, express or implied, except that it is accurate to the best knowledge of Salem Fabrication Supplies. It relates only to the specific material designated herein, and does not relate to use in combination with any other material or in any process. Salem Fabrication Supplies assumes no legal responsibility for use of or reliance upon this information.

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