

## SAFETY DATA SHEET

Current Revision: 1, 2/13/2017	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> ZOX PG Zirconium Oxide	
<b>SYNONYMS:</b> Oxide polishing compound.	

**Recommended Use:**

Ophthalmic and advanced surfaces processing.

**Restrictions:**

Industrial and professional use.

### II. HAZARD IDENTIFICATION

**Classification (§1910.1200):**

Not a hazardous substance or mixture.

**Signal Word/Symbols:**

N/A

**Hazard Statement:**

N/A

**Precautionary Statement:**

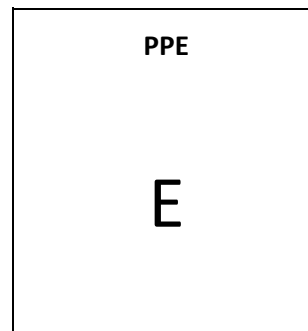
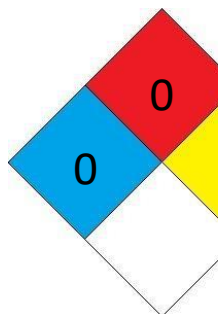
N/A

**Miscellaneous Hazards:**

None known.

**Unknown Acute Toxicity Statement:**

**NFPA 704**



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**Office:** 800.445.6339 | 562.944.6155

**PENNSYLVANIA**

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**Office:** 724.212.3749

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No data available.

### III.COMPOSITION

CHEMICAL NAME:	COMMON NAMES:	CAS:	% BY WEIGHT:
Zirconium dioxide	N/A	1314-23-4	90-100

#### Classified Impurities and Additives:

No data available.

### IV.FIRST AID MEASURES

#### Inhalation:

Move to fresh air. If unconscious place in recovery position and seek medical advice.  
Never give anything by mouth to an unconscious person.

#### Skin Contact:

Wash off immediately with soap and plenty of water. If a person feels unwell or symptoms of skin irritation appear, consult a physician.

#### Eye Contact:

Rinse immediately with plenty of water and seek medical advice.

#### Ingestion:

Do NOT induce vomiting. Rinse immediately with plenty of water and seek medical advice.

#### Symptoms/Effects:

May cause irritation to exposed areas.

#### Level of Medical Attention Needed:

Consult a physician.

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## V. FIRE-FIGHTING MEASURES

### **Suitable Extinguishing Media:**

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

### **Unsuitable Extinguishing Media:**

Do not use heavy water stream as it may scatter and spread fire.

### **Specific Hazards:**

Exposure to decomposition products may be a hazard to health. Do not allow run-off from fire-fighting to enter drains or water courses.

### **Special Protective Equipment:**

As in any fire, wear self-contained breathing apparatus and full protective gear.

## VI. ACCIDENTAL RELEASE MEASURES

### **Personal Precautions:**

Ensure adequate ventilation.  
Follow safe handling advice and personal protective equipment recommendations.

### **Protective Equipment:**

See Section 8 for additional information.

### **Emergency Procedures:**

Evacuate unnecessary personnel.

### **Methods for Cleanup/Removal:**

Sweep up and shovel into suitable containers for disposal. Clean contaminated floors and objects thoroughly while observing environmental regulations. Do not flush into surface water or sanitary sewer system. Prevent product from entering drains.

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## VII. HANDLING AND STORAGE

### Handling Precautions:

- Do not get in eyes or mouth or on skin.
- For personal protection see section 8.
- Smoking, eating and drinking should be prohibited in the application area.
- Do not use in areas without adequate ventilation.

### Safe Storage Conditions:

Keep away from heat and sources of ignition. Keep in a dry, cool, and well-ventilated place.

### Incompatibilities:

- Incompatible with oxidizing agents.
- Incompatible with strong acids and bases.

## VIII. EXPOSURE CONTROLS AND PROTECTIVE EQUIPMENT

OSHA PEL:	ACGIH TLV:	OTHER EXPOSURE LIMITS:
<b>Z-1</b> 5mg/m <sup>3</sup> (Zirconium) TWA <b>P0</b> 5mg/m <sup>3</sup> (Zirconium) TWA 10mg/m <sup>3</sup> (Zirconium) STEL	5mg/m <sup>3</sup> (Zirconium) TWA 10mg/m <sup>3</sup> (Zirconium) STEL	<b>NIOSH REL</b> 5mg/m <sup>3</sup> (Zirconium) TWA 10mg/m <sup>3</sup> (Zirconium) STEL

### Appropriate Engineering Controls:

Apply technical measures to comply with the occupational exposure limits. Provide adequate ventilation. Ensure that eyewash stations and safety showers are close to the workstation location.

### Personal Protective Measures:

- Safety glasses with side shields.
- Lightweight protective clothing.

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Chemical-resistant gloves and impermeable body covering to minimize skin contact.  
 Remove contaminated clothing and protective equipment before entering eating areas.  
 Wash hands before breaks and immediately after handling the product.  
 Respiratory protection: Use NIOSH approved respirator when ventilation is inadequate.  
 Wear NIOSH approved respirator to limit exposure to NORM.

## IX. PHYSICAL AND CHEMICAL PROPERTIES

### Appearance:

Granular with coloration.

<b>Odor:</b> Characteristic	<b>Odor Threshold:</b> No information available.	<b>pH:</b> 7.2
<b>Melting/Freezing Point:</b> No information available.	<b>Boiling Point:</b> No information available.	<b>Boiling Range:</b> No information available.
<b>Flash Point:</b> No information available.	<b>Evaporation Rate:</b> No information available.	<b>Flammability (Solid, Gas):</b> No information available.
<b>Upper/ Lower Flammability/ Explosive Limit:</b> No information available.	<b>Vapor Pressure:</b> No information available.	<b>Vapor Density:</b> No information available.
<b>Relative Density:</b> No information available.	<b>Solubility (ies):</b> No information available.	<b>Partition Coefficient: NOctanol/Water:</b> No information available.
<b>Auto Ignition Temperature:</b> No information available.	<b>Decomposition Temperature:</b> No information available.	<b>Viscosity:</b> No information available.

## X. STABILITY AND REACTIVITY

### Reactivity:

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No information available.

**Chemical Stability:**

No information available.

**Possibility of Hazardous Reactions:**

No information available.

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

Incompatible materials.

**Incompatible Materials:**

Incompatible with oxidizing agents.

Incompatible with strong acids and bases.

**Hazardous Decomposition Products:**

None under normal processing.

**XI. TOXICOLOGICAL INFORMATION**

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

Inhalation (dust/mist/fume), inhalation (vapor), skin, eye contact, and ingestion.

**Symptoms Related To Toxicological Characteristics:**

None classified or known, may cause irritation.

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

None known.

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**Numerical Toxicity Measurements:**

None known.

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

Not a known carcinogen.

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**XII. ECOLOGICAL INFORMATION**

**Ecotoxicity:**

No information available.

**Persistence and Degradability:**

No information available.

**Bioaccumulative Potential:**

No information available.

**Soil Mobility:**

No information available.

**Other Adverse Effects:**

None known.

**XIII. DISPOSAL CONSIDERATIONS**

**Waste Residue and Disposal:**

Dispose in accordance with local, state, and national regulations. Empty containers should be taken to an approved waste handling site for recycling or disposal.

**XIV. TRANSPORT INFORMATION**

<b>UN Number:</b> Not regulated.	<b>UN Proper Shipping Name:</b> Not regulated.	<b>Transport Hazard Class (es):</b> Not regulated.
<b>Packing Group:</b> Not regulated.	<b>Environmental Hazards:</b> None known.	<b>Transport in Bulk (Annex LI MARPOL 73/78 and IBC Code)</b> Not regulated.

**Special Precautions:**

None known.

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## XV. REGULATORY INFORMATION

### Environmental/ Health/ Safety:

Massachusetts Right To Know: Zirconium dioxide

Pennsylvania Right To Know: Zirconium dioxide

New Jersey Right To Know: Zirconium dioxide

U.S. EPA TSCA 5a - Not relevant.

TSCA\_12b - Not relevant.

REACH: On the inventory, or in compliance with the inventory.

CH INV: On the inventory, or in compliance with the inventory.

TSCA: On TSCA Inventory.

DSL: All components of this product are on the Canadian DSL.

AICS: On the inventory, or in compliance with the inventory.

NZIoC: On the inventory, or in compliance with the inventory.

ENCS: On the inventory, or in compliance with the inventory.

ISHL: On the inventory, or in compliance with the inventory.

KECI: On the inventory, or in compliance with the inventory.

PICCS: On the inventory, or in compliance with the inventory.

IECSC: On the inventory, or in compliance with the inventory.

TW INV: Not in compliance with the inventory: zirconium dioxide.

MY INV: Not in compliance with the inventory: zirconium dioxide.

TR INV: Not in compliance with the inventory: zirconium dioxide.

## 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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