



Shay and Company  
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# SAFETY DATA SHEET

Version: 1.0

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## 1. Product and Company Identification:

**Product:** Zinc Oxide

**Item Code:** 99148

**Distributor:** Shay and Company

## 2. Hazard Identification:

**OSHA/HCS Status:** This material is not considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200), this SDS contains valuable information critical to the safe handling and proper use of this product. This SDS should be retained and available for employees and other users of this product.

**Classification:** not classified

**GHS Label Requirements:**

**Signal Word:** None

**Hazard Statements:** None

**Precautionary Statements:** None

## 3. Composition/Information on Ingredients:

**Substance/Mixture:** Substance

**Chemical Name:** Zinc Oxide

**CAS no:** 1314-13-2

**Percentage:** 95-100%

## 4. First Aid Measures:

**Inhalation:** Remove to fresh air and keep at rest in position comfortable for breathing. Get medical attention if necessary.

**Eyes:** Immediately flush eyes with plenty of water, occasionally lifting upper and lower eyelids. Check for and remove any contact lenses. Get medical attention if necessary.

**Skin:** Wash contaminated area with soap and water. Get medical attention if needed.

**Ingestion:** Wash out mouth with water. Remove subject to fresh air and keep in comfortable position for breathing. If material has been swallowed and person



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is conscious, give small amounts of water to drink. Do not induce vomiting unless directed to do so by medical professionals. Get medical attention if needed.

## 5. Fire Fighting Measures:

**Suitable Extinguishers:** Use media suitable for extinguishing surrounding fire

**Extinguishers Not to be Used:** None known

**Hazardous Decomposition Products:** May include metal oxide/oxides

**Special Fire Fighting Procedures:** Promptly isolate scene by removing all persons from the vicinity of incident if there is a fire.

## 6. Accidental Release Measures:

**Personal Precautions:** None needed

**Environmental Precautions:** Avoid spilled runoff with soil, waterways, drains and sewers

**Clean Up Procedure:** Dispose of according to local waste guidelines.

## 7. Handling and Storage:

**Handling Precautions:** Put on appropriate personal protective equipment

**Storage Requirements:** Store in accordance with local regulations. Store in original container away from sunlight in a dry, cool and well-ventilated area. Keep container tightly closed and sealed when not in use.

## 8. Exposure Controls/Personal Protection:

**Occupational Exposure Limit:**

**United States**

**NIOSH REL (United States 10/2016)**

CEIL: 15mg/m<sup>3</sup> FORM: Dust

TWA: 5 mg/m<sup>3</sup> 10 hours FORM: Dust and Fumes

STEL: 10 mg/m<sup>3</sup> 15 minutes FORM: Fertilizer and/or industrial use

**OSHA PEL (United States 5/2018)**

TWA: 5 mg/m<sup>3</sup> 8 hours FORM: Fertilizer and/or industrial use

TWA: 5 mg/m<sup>3</sup> 8 hours FORM: Respirable Fraction

TWA: 15 mg/m<sup>3</sup> 8 hours FORM: Total dust

**ACGIH TLV (United States 3/2018)**

TWA: 2 mg/m<sup>3</sup> 8 hours FORM: Respirable Fraction

STEL: 10 mg/m<sup>3</sup> 15 minutes FORM: Respirable Fraction

**Ventilation:** Good ventilation should be sufficient to control worker exposure

**Respiratory Protection:** Based on the hazard and potential for exposure, select a respirator that meets the appropriate standard or certification. Respirators



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must be used in accordance with a respiratory protection program to ensure proper fitting, training and other important aspects of use.

**Eye Protection:** Safety eyewear complying with approved standard should be used when a risk assessment deems appropriate.

**Skin Protection:** Chemical resistant, impervious gloves should be worn at all times when handling chemical products if risk assessment deems appropriate.

## 9. Physical and Chemical Properties:

**Description:** White, free-flowing powder

**Extracted Method:** Metallic zinc is vaporized and then oxidized in an oxidation chamber

**Odor:** Odorless

**pH:** Neutral

**Melting Point:** 1975°C/3587°F

**Boiling Point:** n/a

**Relative Density:** 5.61

## 10. Stability and Reactivity:

**Condition to Avoid:** No specific data

**Materials to Avoid:**

Chlorinated rubber. Violent reaction or explosion with zinc oxide at 215°C.

Flax Oil: Exothermic reaction with possibility of ignition.

Magnesium: if heated, possible explosive reaction.

Strong bases and acids: possibly of violent reaction.

**Hazardous Decomposition Products:** Under normal storage and usage, hazardous decomposition products should not be produced.

## 11. Toxicological Information:

**Acute Toxicity:** No known effects

**Irritation/Corrosion:** No known effects

**Sensitization:** No known effects

**Mutagenicity:** No known effects

**Carcinogenicity:** No known effects

**Reproductive Toxicity:** No known effects

**Teratogenicity:** No known effects

**Specific Target Organ Toxicity (single exposure):** No known effects

**Specific Target Organ Toxicity (repeated exposure):** No known effects

**Aspiration Hazard:** No known effects

## 12. Ecological Information:



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**Persistence and degradation:** No data available  
**Bio accumulative potential:** no data available  
**Motility in Soil:** no data available

### 13. Disposal Considerations:

**Handling Precautions:** Wear gloves and protective eyewear where risk assessment deems necessary  
**Method of Disposal:** Comply with local regulations  
**Contaminated Packaging:** Comply with local regulations

### 14. Transportation Information:

**UN Number:** Not Regulated  
**UN Proper Shipping Name:**  
Environmentally hazardous substances; marine pollutant  
**Transport Hazard Class:** 9  
**Packing Class:** III  
**Environmental Hazards:**  
DOT: No  
TDG: No  
IMDG: Yes  
IATA: No

#### **Additional Information:**

**IMDG:** This product is not regulated as a dangerous good when transported in sizes of <5L or <5kg, provided the packaging meets general provisions of 4.1.1.1, 4.1.1.2 and 4.1.1.4 to 4.1.1.8

**IATA:** This product is not regulated as a dangerous good when transported in sizes of <5L or <5kg, provided the packaging meets general provisions of 5.0.2.4.1, 5.0.2.6.1 and 5.0.2.8.

### 15. Regulatory Information:

**US Federal Regulation:** All components are listed or exempted  
Clean Water Act: Zinc Oxide  
Clean Air Section 112 b, hazardous air pollutants: Listed  
Clean Air Section 602, Class I substances: Not listed  
Clean Air Section 602, Class II substances:: Not listed  
DEA List I chemicals: Not listed  
DEA List II chemicals: not listed

<b>SARA 302/304</b>	<b>EHS</b>	<b>302LBS/GALLONS</b>	<b>304RQ</b>
Cadmium Oxide	yes	100-1000/-	100lbs

**SARA 311/312- not applicable**



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**SARA313**

**Form R Reporting Requirements:** Zinc Oxide 1314-13-2

**Supplier Notification:** Zinc Oxide 1314-13-2

**State Regulations:**

**Massachusetts:** Zinc Oxide

**New York:** not listed

**New Jersey:** Zinc Oxide

**Pennsylvania:** Zinc Oxide

**California Prop 65:**

This product can expose you to chemicals including Cadmium Oxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

This product can expose you to chemicals including Lead Monoxide, which is known to the State of California to cause cancer and birth defects or other reproductive harm.

**Canada:**

**Canada Inventory (DSL NDSL):** All components are listed or exempted

**Canadian NPRI:** Zinc Oxide

**CEPA Toxic Substances:** Not listed

**16. Other Information:**

None

The information provided above is intended only as a guide to the appropriate precautionary handling of the item. It is the responsibility of the customer and user to ensure it has in place provisions for the safe and proper handling of the material. Shay and Company believes the above information to be accurate based on the information available, however, it is the responsibility of the customer and user of the material to perform its own investigation and due diligence prior to use to verify that the product purchased from Shay and Company meets their quality requirements and is appropriate for the use to which the product is to be put.