



Shay and Company
10639 SE Fuller Rd
Milwaukie, OR 97222
Ph: 503-653-1155
info@shayandcompany.com

SAFETY DATA SHEET

Version: 1.0

Revision Date: 08/30/2019

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



Shay and Company
10639 SE Fuller Rd
Milwaukie, OR 97222
Ph: 503-653-1155
info@shayandcompany.com

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/m³ FORM: Dust

TWA: 5 mg/m³ 10 hours FORM: Dust and Fumes

STEL: 10 mg/m³ 15 minutes FORM: Fertilizer and/or industrial use

OSHA PEL (United States 5/2018)

TWA: 5 mg/m³ 8 hours FORM: Fertilizer and/or industrial use

TWA: 5 mg/m³ 8 hours FORM: Respirable Fraction

TWA: 15 mg/m³ 8 hours FORM: Total dust

ACGIH TLV (United States 3/2018)

TWA: 2 mg/m³ 8 hours FORM: Respirable Fraction

STEL: 10 mg/m³ 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



Shay and Company
10639 SE Fuller Rd
Milwaukie, OR 97222
Ph: 503-653-1155
info@shayandcompany.com

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:



Shay and Company
10639 SE Fuller Rd
Milwaukie, OR 97222
Ph: 503-653-1155
info@shayandcompany.com

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

| | | | |
|---------------------|------------|-----------------------|--------------|
| SARA 302/304 | EHS | 302LBS/GALLONS | 304RQ |
| Cadmium Oxide | yes | 100-1000/- | 100lbs |

SARA 311/312- not applicable



Shay and Company
10639 SE Fuller Rd
Milwaukie, OR 97222
Ph: 503-653-1155
info@shayandcompany.com

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.