

Material Safety Data Sheet



Sultan Healthcare

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EU Auth. Rep. (MDD 93/42/EEC)

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FOR CHEMICAL EMERGENCY: CALL INFOTRAC 1-800-535-5053 24 Hrs. per day, 7 days per week
Outside the United States call collect 1-352-323-3500

Q-Form 10-111, Rev. D

Date Reviewed: May 19, 2008

1. Chemical Identification

Common Name: Zinc Oxide, USP

Ref #: 11803 (1.5 oz), 11804 (1 Lb), 11807 (1 kg)

2. Composition/Information on Ingredients

Zinc Oxide CAS# 1314-13-2 Percent: 100 %

3. Hazards Identification

Acute Toxicity:

Eye Contact: May cause irritation

Skin Contact: May cause irritation

Chronic Toxicity:

Skin Contact: Repeated exposure to skin can cause dermatitis.

Ingestion: May cause lumbar pain, oliguria, uremia, convulsions, coma, cardiac failure and pulmonary edema.

Inhalation: May cause metal fume fever (cough, fever, chills, headache, tight chest, nausea), sweet metal taste or dry throat.

4. First Aid Measures

Eye Contact: Flush eyes with water for at least 15 minutes.

Skin Contact: Remove contaminated clothing and shoes.

Wash exposed areas with soap and water.

Inhalation: Remove to fresh air. If breathing has stopped, give artificial respiration. Get medical attention.

Ingestion: Call a physician immediately. Only induce vomiting if directed by a physician. Give 2 - 3 glasses of water. Do not give anything by mouth to an unconscious person.

5. Fire Fighting Measures

Flash Point and Method: N/A

Extinguishing Media: Use water spray, carbon dioxide, dry chemical or foam.

Special Fire Fighting Procedures: Water spray may be used to control dust.

Unusual Fire and Explosion Hazards: During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. Accidental Release Measures

Contain spill and ventilate area. Sweep up and containerize for disposal. Avoid generating dust.

7. Handling and Storage

Handling: Avoid contact with skin, eyes and clothing.

Avoid breathing product dust. Wash thoroughly after handling this material. Use with adequate ventilation.

Storage: Keep container closed when not in use. Store in a cool, dry, well-ventilated area.

8. Exposure Controls/Personal Protection

Exposure Limit Method:

Respiratory Protection: If engineering controls do not maintain airborne concentrations below recommended limits, wear a NIOSH approved respirator for dust.

Eye Protection: Wear chemical safety goggles.

Exhaust Required: Local

Protective Gloves: Either of neoprene or rubber

Special Protective Clothing:

Exposure Guidelines

ACGIH		OSHA	
TLV (mg/m3)	STEL (mg/m3)	PEL (mg/m3)	STEL (mg/m3)
5 (f)	10 (f)	5 (r)	15 (t)

Where f = fumes, r = respirable particulate, t = total

9. Physical and Chemical Properties

Appearance: White solid

Odor: Odorless

Solubility in Water: Insoluble

pH (@ 25 C): 6.95 - 7.37

Boiling Point (°C): N/A

Melting Point: 3587 °F (1974.8 °C)

Evaporation Rate (Butyl acetate = 1): N/A

Vapor Pressure (mm Hg @ °C):

Specific Gravity (H₂O = 1): 5.61

Vapor Density (Air = 1): N/A

Water Reactivity: N/A

10. Stability and Reactivity

Stability: Stable

Hazardous Polymerization: Will not occur

Hazardous Decomposition Products: Oxides of zinc

Conditions to Avoid: Moisture

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11. Toxicological Information:

Immediate effects: May cause eye, skin, respiratory and gastrointestinal tract irritation.

Irritation Data

Skin: 500 mg / 24 hours, rabbit mild

Eyes: 500 mg / 24 hours, rabbit mild

Toxicity Data

Oral: > 8437 mg / kg, rat LD

Intraperitoneal: 240 mg / kg, rat LD50

Oral: 7950 mg / kg, mouse LD50

Inhalation: 2500 mg / m³, mouse LC50

Carcinogenicity: N/A

Unscheduled DNA synthesis: guinea pig inhalation 5300 ug/m³ for 3 hours, 6 days

Epidemiology: N/A

Mutagenicity

DNA adduct: *Escherichia coli* 3000 ppm

Cytogenetic analysis: Rat inhalation 100 ug/m³

Morphological transformation: hamster embryo 1 mg/L

Unscheduled DNA synthesis: hamster embryo 1 mg/L

Sister chromatid exchange: hamster embryo 300 ug/L

Reproductive Effects: 6848 mg / kg oral rat TDLo 1–22 days pregnant female continuous.

12. Ecological Information

Fish: 2246000 ug/L 96 hours L50 (Mortality)

Flathead minnow (*Pimephales promelas*)

Invertebrate: 98 ul/L 48 hours LC50 (Mortality)

Water flea (*Aphnia magna*)

Other: 3200 ug/L 3 weeks LC50 (Mortality)

Toad (*Bufo bufo japonicus*)

13. Disposal Considerations:

Discharge, treatment or disposal may be subject to Federal, State or local laws. State and local regulations and restrictions are complex and may differ from federal disposal regulation. The information offered here is for the product as shipped. Use and / or alterations to the product such as mixing with other materials may significantly change the characteristics of the material and alter the RCRA (Resource Conservation and Recovery Act) Classification and the proper disposal method.

14. Transit Information

Not DOT, IMDG, or IATA regulated.

15. Regulatory Information

TSCA (Toxic Substance Control Act): yes

Sara Title III (Superfund Amendments and Reauthorization Act)

Section 311/312 Hazard Class: Immediate (acute) health hazard

Section 313: yes

Section 302: no

This product has been classified in accordance with the hazard criteria of the *Controlled Products Regulations* and the MSDS contains all the information required by the *Controlled Products Regulations*.

16. Other Information

The information contained herein is based on data considered accurate. However, no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. In no event will the manufacturer or the distributor be responsible for damages of any nature whatsoever resulting from the use of or reliance upon this information. General properties are to be regarded as guidelines and are not guaranteed for all samples.