

LTS Research Laboratories, Inc. Safety Data Sheet Zinc Peroxide

1. Product and Company Identification

Trade Name: Zinc peroxide

Chemical Formula: ZnO₂

Recommended Use: Scientific research and development

Manufacturer/Supplier: LTS Research Laboratories, Inc.

> Street: 2001 Oaks Pkwy City: Belmont State: North Carolina

Zip Code: 28012 Country: **USA**

855-587-2436 / 855-lts-chem Tel #:

24-Hour Emergency Contact: 800-424-9300 (US & Canada)

+1-703-527-3887 (International)

2. Hazards Identification

Signal Word:

Danger



Hazard Statements: H271: May cause fire or explosion; strong oxidizer

> H315: Causes skin irritation H319: Causes serious eye irritation

H410: Very toxic to aquatic life with long lasting effects.

Precautionary Statements: P210: Keep away from heat/sparks/open flames/hot surfaces – No

P220: Keep/Store away from clothing/ other combustible materials P221: Take any precaution to avoid mixing with combustibles

P264: Wash skin thoroughly after handling P273: Avoid release to the environment

P280: Wear protective gloves/protective clothing/eye protection/face protection

P283: Wear fire/ flame resistant/ retardant clothing

P302 + P352: IF ON SKIN: Wash with plenty of soap and water P305 + P351 + P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing

P306 + P360: IF ON CLOTHING: Rinse immediately contaminated clothing and skin with plenty of water before removing clothes P332 + P313: If skin irritation occurs: Get medical advice/ attention

P337 + P313: If eye irritation persists: Get medical advice/ attention P362: Take off contaminated clothing and wash before reuse

P370 + P378: In case of fire: Use CO₂, dry sand, dry chemical, or

alcohol-resistant foam to extinguish

P371 + P380 + P375: In case of major fire and large quantities: Evacuate area. Fight fire remotely due to the risk of explosion.

P391: Collect spillage

P501: Dispose of contents/ container to an approved waste disposal

HMIS Health Ratings (0-4):

Health: 2 Flammability: 0 Physical: 0

3. Composition

Chemical Family: Inorganic compound

Additional Names: Zinc peroxide

Zinc Peroxide (ZnO₂):

Skin:

Percentage: 100 wt% CAS No: 1314-22-3 EC No: 215-226-7

4. First Aid Procedures

General Treatment: Seek medical attention if symptoms persist.

Special Treatment: None Important Symptoms: None

Inhalation: Remove victim to fresh air. Supply oxygen if breathing is difficult. Ingestion: Give one to two glasses of water and induce vomiting. Never induce

on: Give one to two glasses of water and induce vomiting. Never induce vomiting or give anything by mouth to an unconscious person.

Wash affected area with mild soap and water. Remove any

contaminated clothing.

Eyes: Flush eyes with water, blinking often for several minutes. Remove

contact lenses if present and easy to do. Continue rinsing

5. Firefighting Measures

Flammability: Non-flammable, except as powder

Extinguishing Media: No special restrictions – use suitable extinguishing agent for

surrounding material and type of fire. Do not use water for metal fires –

use CO₂, sand, extinguishing powder.

Spec. Fire Fighting Procedure: Use full-face, self-contained breathing apparatus with full protective

clothing to prevent contact with skin and eyes. See section 10 for

decomposition products.

6. Accidental Release Measures

If Material Is Released/Spilled: Wear appropriate respiratory and protective equipment specified in

special protection information. Isolate spill area and provide ventilation. Vacuum up spill using a high efficiency particulate absolute (HEPA) air filter and place in a closed container for disposal.

Take care not to raise dust.

Environmental Precautions: Isolate runoff to prevent environmental pollution.

7. Handling and Storage

Handling Conditions: Wash thoroughly after handling.

Storage Conditions: Store in a cool dry place in a tightly sealed container. Store apart from

materials and conditions listed in section 10.

Work/Hygienic Maintenance: Do not use tobacco or food in work area. Wash thoroughly before

eating and smoking. Do not blow dust off clothing or skin with

compressed air.

Ventilation: Provide sufficient ventilation to maintain concentration at or below

threshold limit.

8. Exposure Controls and Personal Protection

Permissible Exposure Limits: 5 mg/m³ as ZnO, long-term value

Threshold Limit Value: N/A

Special Equipment: None

Respiratory Protection:
Protective Gloves:

Dust Respirator
Rubber gloves

Eye Protection: Safety glasses or goggles

Body Protection: Protective work clothing. Wear close-toed shoes and long

sleeves/pants.

9. Physical and Chemical Characteristics

Color N/A

Form: Powder, Granules, Pellets, Sputtering target, Custom parts

Odor: N/A

Water Solubility:
Boiling Point:

N/A

N/A

Research
N/A

Melting Point: 212 °C Flash Point: N/A Autoignition Temperature: N/A Density: 1.57 g/cm 3

Molecular weight: 97.38 g/mol

10. Reactivity

Stability: Stable under recommended storage conditions

Reacts With: Reducing Agent, Strong reducing agents, Combustible material

Incompatible Conditions: Excess heat. Combustible material Hazardous Decomposition Products: None under normal use conditions

11. Toxicological Information

Potential Health Effects:

Eyes: Causes serious eye irritation
Skin: Causes skin irritation
Ingestion: May cause irritation

Inhalation: May cause irritation

May cause irritation

Chronic: N/A

Signs & Symptoms: N/A
Aggravated Medical Conditions: N/A

Median Lethal Dose: LD50 = 5,000 mg/kg for rat by mouth

Carcinogen: N/A

12. Ecological Information

Aquatic Toxicity: Very toxic to aquatic life with long lasting effects

Persistent Bioaccumulation Toxicity: N/A
Very Persistent, Very Bioaccumulative: N/A
Notes: N/A

13. Disposal Considerations

Dispose of in accordance with local, state, national, and international regulations.

14. Transportation Data

Hazardous: Hazardous for transportation



Hazard Class: 5.1
Packing Group: II
UN Number: UN1516
Proper Shipping Name: Zinc peroxide

15. Regulatory Information

Sec 302 Extremely Hazardous:
Sec 304 Reportable Quantities:
N/A
Sec 313 Toxic Chemicals:
Yes

16. Other Information

This safety data sheet should be used in conjunction with technical sheets. It does not replace them. The information given is based on our knowledge of this product, at the time of publication. It is given in good faith. The attention of the user is drawn to the possible risks incurred by using the product for any other purpose other than that for which it was intended. This does not in any way excuse the user from knowing and applying all the regulations governing his activity. It is the sole responsibility of the user to take all precautions required in handling the product. The aim of the mandatory regulations mentioned is to help the user to fulfill his obligations regarding the use of hazardous products.

Document Last Revised: 01/31/2023