

MATERIAL SAFETY DATA SHEET

ZINC OXIDE

Section 1 - Chemical Product and Company Identification

MSDS Name: Zinc oxide

Synonyms:

Company Identification: Rawpharma Biz Pvt Ltd
1101-CITY CENTRE-2, BESIDE SUKAN
MALL, SCIENCE CITY ROAD, SOLA
Ahmedabad, Gujarat, 380060

Telephone Number: 9879522397

Emergency Telephone Number: 8320310672 (10:00am - 05:00 pm) [Office hours]

Website: www.rawpharmabiz.com

Section 2 - Composition, Information on Ingredients

CAS#,	Chemical Name:	%,	EINECS#
1314-13-2,	Zinc oxide,	99.5+%,	215-222-5

Section 3 - Hazards Identification

EMERGENCY OVERVIEW

Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Potential Health Effects

Eye: May cause eye irritation.

Skin: May cause skin irritation. May be harmful if absorbed through the skin.

Ingestion: May cause irritation of the digestive tract. May be harmful if swallowed.

Inhalation: May cause respiratory tract irritation. May be harmful if inhaled.

Chronic:

Section 4 - First Aid Measures

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes.

Ingestion: Get medical aid. Wash mouth out with water.

Inhalation: Remove from exposure and move to fresh air immediately. Get medical aid.

Notes to Physician: Treat symptomatically and supportively.

Section 5 - Fire Fighting Measures

General Information: Substance is noncombustible.

Extinguishing Media: Substance is noncombustible; use a agent most appropriate to extinguish surrounding fire.

Section 6 - Accidental Release Measures

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Vacuum or sweep up material and place into a suitable disposal container. Avoid generating dusty conditions. Do not let this chemical enter the environment.

Section 7 - Handling and Storage

Handling: Minimize dust generation and accumulation. Avoid breathing dust, vapor, mist, or gas. Avoid contact with skin and eyes. Avoid ingestion and inhalation.

Storage: Store in a cool, dry place. Store in a tightly closed container.

Section 8 - Exposure Controls, Personal Protection

Engineering Controls:

Use adequate ventilation to keep airborne concentrations low.

Exposure Limits, CAS#

1314-13-2:

United States OSHA: 5 mg/m³ TWA (fume); 15 mg/m³ TWA (total dust); 5 mg/m³ TWA (respirable fraction)

Belgium - TWA: 10 mg/m³ VLE (dust); 5 mg/m³ VLE (fumes) Belgium - STEL: 10 mg/m³ VLE (fumes),

France - VME: 5 mg/m³ VME (fume); 10 mg/m³ VME (dust) ,

Germany: 5 mg/m³ TWA (respirable fraction, smoke) ,

Japan: 1 mg/m³ OEL (respirable dust); 4 mg/m³ OEL (total dust) ,

Malaysia: 5 mg/m³ TWA (fume); 10 mg/m³ TWA (dust) ,

Netherlands: 5 mg/m³ MAC (smoke) ,

Russia: 0.5 mg/m³ TWA (aerosol) ,

Spain: 5 mg/m³ VLA-ED (vapor); 10 mg/m³ VLA-ED (dust) Spain: 10 mg/m³ VLA-EC (fume),

Personal Protective Equipment

Eyes: Wear chemical splash goggles.

Skin: Wear appropriate protective gloves to prevent skin exposure.

Clothing: Wear appropriate protective clothing to prevent skin exposure.

Respirators: Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH/MSHA or European Standard EN 149 approved respirators if exposure limits are exceeded or if irritation or other symptoms are experienced.

Section 9 - Physical and Chemical Properties

Physical State:, Powder

Color:, white - yellowish-white **Odor:**,
odorless

pH:, 7 (50 g/l aq.sol.(susp))

Vapor Pressure:, Not available

Viscosity:, Not available

Boiling Point:, Not available

Freezing/Melting Point:, 1975 deg C (3,587.00°F)

Autoignition Temperature:, Not available

Flash Point:, Not available

Explosion Limits: Lower:, Not available

Explosion Limits: Upper:, Not available

Decomposition Temperature:, Not available

Solubility in water:, 1.6 mg/l (29°C)

Specific Gravity/Density:, 5.600

Molecular Formula:, ZnO

Molecular Weight:, 81.38

Section 10 - Stability and Reactivity

Chemical Stability:, Stable under normal temperatures and pressures.

Conditions to Avoid:, Incompatible materials, dust generation.

Incompatibilities with Other Materials:, Strong oxidizing agents, acids, bases, magnesium, chlorinated rubber, zinc chloride, hydrogen fluoride.

Hazardous Decomposition Products:, not available **Hazardous Polymerization:**, Will not occur.

Section 11 - Toxicological Information

RTECS#:, CAS# 1314-13-2: ZH4810000 ZH4817000 **LD50/LC50:**,

RTECS:

CAS# 1314-13-2: Draize test, rabbit, eye: 500 mg/24H Mild;

Draize test, rabbit, skin: 500 mg/24H Mild;

Inhalation, mouse: LC50 = 2500 mg/m³;

Oral, mouse: LD50 = 7950 mg/kg; Other:

Carcinogenicity: Zinc oxide - Not listed as a carcinogen by ACGIH, IARC, NTP, or CA Prop 65.

Other:, See actual entry in RTECS for complete information. Mutagenicity: Ames-test: negative.

Section 12 - Ecological Information

Ecotoxicity:, Daphnia: Daphnia: EC50 >1000 mg/L; 48H; .

Fish: Bluegill/Sunfish: LC50 >320 mg/L; 96H; .

Fish: Fathead Minnow: LC50: 2246 mg/L; 96H; .

Fish: Rainbow trout: LC50: 1.1 mg/L; 96H; .

Other: Do not empty into drains.

Section 13 - Disposal Considerations

Dispose of in a manner consistent with federal, state, and local regulations.

Section 14 - Transport Information

	IATA,	IMO ,	RID/ADR
Shipping Name: ,	environmentally hazardous substance	environmentally hazardous substance	environmentally Hazardous Substance
	SOLID, N.O.S.*	SOLID, N.O.S	SOLID, N.O.S.*
Hazard Class: ,	9,	9 ,	9
UN Number: ,	3077,	3077 ,	3077
Packing Group: ,	III,	III,	III

Section 15 - Regulatory Information

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols: N Risk Phrases:

R 50/53 Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

S 60 This material and its container must be disposed of as hazardous waste.

WGK (Water Danger/Protection)

CAS# 1314-13-2:0

Canada

CAS# 1314-13-2 is listed on Canada's DSL List

US Federal

TSCA

CAS# 1314-13-2 is listed on the TSCA Inventory.

Section 16 - Additional Information

RAWPHARMA BIZ provides the information contained herein in good faith but makes no representation as to its comprehensiveness or accuracy. This document is intended only as a guide to the appropriate precautionary handling of the material by a properly trained person using this product. Individuals receiving the information must exercise their independent judgment in determining its appropriateness for a particular purpose.

