

SAFETY DATA SHEET

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifiers

Product name Zinc Oxide Powder

CAS number 1314-13-2

Synonyms Zinc white; Calamine

1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses Laboratory chemicals.

1.3 Details of the supplier of the safety data sheet

Company Lab Alley, LLC

12501 Pauls Valley Road Austin, Texas 78737

U.S.A.

Telephone 512-668-9918 Fax 512-886-4008

1.4 Emergency telephone

Emergency Phone # US & Canada: 1-800-535-5053 INFOTRAC

International 1-352-323-3500 INFOTRAC

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Short-term (Acute) Aquatic Hazard Category 1
Long-term (Chronic) Aquatic Hazard Category 1

2.2 GHS Label elements, including precautionary statements

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Pictogram



Signal Word Warning

Hazard statements Very toxic to aquatic life with long lasting effects.

Precautionary Avoid release to the environment.

statements Collect spillage.

Dispose of contents/ container to an approved waste disposal

plant.

2.3 Hazards not otherwise classified (HNOC) or not covered by GHS

None identified.

SECTION 3: Composition/information on ingredients

3.1 Components

Chemical name	Common name and synonyms	CAS number	Concentration
Zinc oxide	Zinc white; Calamine	1314-13-2	<= 100%

SECTION 4: First aid measures

4.1 Description of first-aid measures

General advice

If inhaled Remove to fresh air.

In case of skin contact Take off immediately all contaminated clothing. Rinse skin with water/

shower.

In case of eye contact Rinse out with plenty of water. Remove contact lenses.

If swallowed Make victim drink water (two glasses at most). Consult doctor if feeling

unwell.

4.2 Most important symptoms and effects, both acute and delayed

Irritation, Headache, Nausea, Shortness of breath.

4.3 Indication of any immediate medical attention and special treatment needed

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If seeking medical attention, provide SDS document to physician. Physician should treat symptomatically.

SECTION 5: Firefighting measures

5.1 Extinguishing media

dioxide, or alcohol-resistant foam.

Unsuitable extinguishing media For this substance/mixture, no limitations of

extinguishing agents are given.

5.2 Specific hazards arising from the substance or mixture

Not combustible. Thermal decomposition can lead to release of irritating gases and vapors. Zinc/zinc oxides.

5.3 Special protective equipment and precautions for firefighters

In the event of fire, wear self-contained breathing apparatus.

5.4 Further information

Flash Point No information available.

Autoignition Temperature No information available.

Explosion limits

Upper No data available.Lower No data available.

Sensitivity to Mechanical Impact No information available.

Sensitivity to Static Discharge No information available.

NFPA

Health	Flammability	Instability	Physical hazards
1	0	0	N/A

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

6.2 Environmental precautions

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Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

See Section 13 for disposal.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

Precautions on safe handling

Avoid contact with skin, eyes, and clothing. Do not eat, drink, smoke, or use personal products when handling chemical substances. Avoid generating dust.

Hygiene measures

Handle in accordance with good industrial hygiene and safety practice.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store in a cool location. Keep away from food and beverages. Protect from freezing and physical damage. Provide ventilation for containers. Keep container tightly sealed. Store away from incompatible materials.

Incompatibilities

Strong oxidizing agents. Magnesium. Chlorinated rubber.

SECTION 8: Exposure controls/personal protection

8.1 Occupational exposure limits

US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000)

Component	Туре	Value
Zinc oxide	TWA	5 mg/m3
	TWA	15 mg/m3

US. ACGIH Threshold Limit Values

Component	Туре	Value
Zinc oxide	TWA	2 mg/m3
Zilic Oxide	STEL	10 mg/m3

US. NIOSH: Pocket Guide to Chemical Hazards

Commonant	Tuna	\/alua
Component	Type	Value

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	TWA	5 mg/m3
Zinc oxide	ST	10 mg/m3
	С	15 mg/m3

Biological occupational exposure limits

No information available.

8.2 Exposure controls

Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance. Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapor and mists below the applicable workplace exposure limits.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses.

Skin protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Body Protection

Wear appropriate protective gloves and clothing to prevent skin exposure.

Respiratory protection

Not required under normal conditions of use. Where risk assessment shows airpurifying respirators are appropriate use a full-face particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges as a backup to engineering controls. When necessary use NIOSH approved breathing equipment.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical State Solid
Appearance Off-white
Odor Odorless

Odor Threshold No information available

pH 7 (50 g/l aqueous solution (susp))

Melting Point/Range 1975°C

Boiling Point/Range No information available

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Evaporation Rate Not applicable

Flammability (solid) No information available

Flammability or explosive limit No data available

Upper

Lower

Vapor Pressure No information available

Vapor Density Not applicable

Density No information available

Solubility Insoluble

Partition coefficient: No data available

n-octanol/water

Autoignition Temp No information available Decomposition Temp No information available

Viscosity Not applicable

Molecular Formula ZnO

Molecular Weight 81.38 g/mol

VOC Content(%)

Oxidizing properties

No information available

No information available

9.2 Other safety information

No information available.

SECTION 10: Stability and reactivity

10.1 Reactivity

Nonreactive under normal conditions.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

None under normal processing.

10.4 Conditions to avoid

Incompatible materials. Dust generation.

10.5 Incompatible materials

:Strong oxidizing agents. Magnesium. Chlorinated rubber.

10.6 Hazardous decomposition products

Zinc oxides.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Product Information, Component Information

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Acute toxicity

Component	LD50 Oral	LD50 Dermal	LC50 Inhalation
Zinc oxide	7,950 mg/kg (Mouse)	> 2000 mg/kg (Rat)	2,500 mg/m3 (Mouse)

Skin corrosion/irritation

No information available.

Serious eye damage/eye irritation

No information available.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

Component	CAS	IARC	NTP	ACGIH	OSHA	Mexico
Zinc oxide	1314-13-2	Not listed				

Specific target organ toxicity - single exposure

None known.

Specific target organ toxicity - repeated exposure

None known.

Reproductive toxicity

No information available.

Chronic effects

No information available.

11.2 Additional Information

No information available.

SECTION 12: Ecological information

12.1 Toxicity

Very toxic to aquatic life.

Product		Species	Test Results
Zinc oxide	LC50	Oncorhynchus mykiss	1.1 mg/L, 96h
	EC50	Daphnia magna	0.098 mg/L, 48h

12.2 Persistence and degradability

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No information available.

12.3 Bio accumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

No information available.

12.6 Endocrine disrupting properties

No information available.

12.7 Other adverse effects

No information available.

SECTION 13: Disposal considerations

13.1 Waste Disposal Methods

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

DOT (US)

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

IMDG

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

IATA

UN-No UN3077

Proper Shipping Name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazard Class 9
Packing Group III

SECTION 15: Regulatory information

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US federal regulations This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)

Not applicable.

CERCLA Hazardous Substance List (40 CFR 302.4)

Not listed.

SARA 304 Emergency release notification

Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)

Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance

Not listed.

SARA 311/312 Hazardous

No SARA Hazards.

SARA 313 (TRI reporting)

Listed, Zinc oxide (CAS #1314-13-2).

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List

Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)

Not regulated.

Safe Drinking Water Act

Not regulated.

FEMA Priority Substances Respiratory Health and Safety in the Flavor Manufacturing Workplace

Not listed.

US state regulations

US. Massachusetts RTK - Substance List

Listed, Zinc oxide (CAS #1314-13-2).

US. New Jersey Worker and Community Right-to-Know Act

Listed, Zinc oxide (CAS #1314-13-2).

US. Pennsylvania Worker and Community Right-to-Know Law

Listed, Zinc oxide (CAS #1314-13-2).

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California Proposition 65

Not listed.

SECTION 16: Other information

Issue date: 01/20/2015 Revision 1: 10/10/2024

SECTION 17: Disclaimer

The information provided on this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guide for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered as a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other material or in any process, unless specified in the text.

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