

1. PRODUCT AND COMPANY IDENTIFICATION

Product name	:	Zinc Oxide (USP) Raw Material
Synonyms	:	ZnO
INCI name	:	Zinc Oxide
CAS #	:	1314-13-2
Country of Origin	:	Canada
EINECS #	:	215-222-5
Product use	:	Domestic and Industrial
Supplier	:	New Directions Aromatics Inc.
Address	:	6781 Columbus Road, Mississauga, Ontario, CANADA L5T 2G9
Fax	:	905-362-1926
Telephone number	:	905-362-1915
Emergency phone number	:	(613)-996-6666 CANUTEC 24 HOUR EMERGENCY

2. HAZARDS IDENTIFICATION

Emergency Overview

GHS Classification

This product is not considered hazardous by the 2012 OSHA Hazard Communication Standard (29CFR1910.1200).

GHS Label elements, including precautionary statements

Signal: Not applicable

Hazard statement(s)

Not applicable.

Precautionary statement(s)

Not applicable.

3. COMPOSITION / INFORMATION INGREDIENTS

Product Name	CAS NO	EC NO	Concentration
Zinc oxide	1314-13-2	215-222-5	100 %

4. FIRST AID MEASURES

Eye contact

Immediately flush eyes with plenty of cool water for at least 20 minutes. Get medical attention if irritation occurs.

Skin contact

Remove contaminated clothing. Wash area with soap and water. If irritation occurs, get medical attention.

Inhalation

If inhaled, removed to fresh air. Get medical attention if symptoms appear.

Ingestion

Seek medical attention or contact local poison control center.

5. FIRE FIGHTING MEASURES

Suitable extinguishing media

Carbon dioxide, foam, dry powder or water spray.

Unsuitable extinguishing media

Water spray, water jet.

Special protective equipment and precautions for fire-fighters

Wear proper protective equipment. Exercise caution when fighting any chemical fire. Use water spray or fog for cooling exposed containers.

Special hazards arising from the substance or its combustible products

Hazardous decomposition products may be formed at extreme heat or if burned.

Resulting gases

Carbon oxides.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures.

Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment (See section 8).

Environmental precautions

Water polluting material. May be harmful to the environment if released in large quantities. Hazardous to aquatic environment. May cause long-term adverse effects in the aquatic environment. Prevent leaking substances from running into the aquatic environment or the sewage system.

Methods and materials for containment and cleaning up

Small Spill: Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

Large Spill: Prevent entry into sewers, water courses, basements or confined areas. Vacuum or sweep up material and place in a designated, labeled waste container. Dispose of via a licensed waste disposal contractor.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid breathing in dust. To prevent explosion hazards, do not allow dust to settle on surfaces. It is recommended that all dust control equipment and material transport systems involved in handling of this product contain explosion relief vents or explosion suppression systems. All conductive elements of the system that contact this material should be electrically bonded and grounded.

Conditions for safe storage, including any incompatibilities

Provide local exhaust or general room ventilation to minimize dust and/or vapour concentrations. Keep container closed when not in use.

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

Exposure controls

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation. In some cases, fume scrubbers, filters or engineering modifications to the process equipment will be necessary to reduce emissions to acceptable levels.

Eyes

Use tightly sealed goggles.

Skin

If skin contact or contamination of clothing is likely, protective clothing should be worn. Use protective gloves.

Respiratory

Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

Recommended: Use appropriate NIOSH approved dust respirator if PEL/TLV may be exceeded.

Exposure limit values

NIOSH REL (United States, 6/2009).

CEIL: 15 mg/m³ Form: Dust

TWA: 5 mg/m³ 10 hour(s). Form: Dust and fumes

STEL: 10 mg/m³ 15 minute(s). Form: Fume

OSHA PEL (United States, 11/2006).

TWA: 5 mg/m³ 8 hour(s). Form: Fume

TWA: 5 mg/m³ 8 hour(s). Form: Respirable fraction

TWA: 15 mg/m³ 8 hour(s). Form: Total dust

ACGIH TLV (United States, 1/2009).

STEL: 10 mg/m³ 15 minute(s).

TWA: 2 mg/m³ 8 hour(s).

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Fine white powder.
Odor	:	Odorless.
pH	:	Neutral.
Melting Point/Freezing Point	:	1975°C
Flash point	:	Not Applicable
Relative density	:	5.61
Solubility (ies)	:	Insoluble in water.

10. STABILITY AND REACTIVITY

Reactivity

This material presents no significant reactivity hazard.

Chemical stability

Chemically stable.

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Avoid sparks, flame and other heat sources.

Incompatible materials

Chlorinated rubber: Violent reaction or explosion with zinc oxide at 215°C.

Flax oil: Exothermic reaction with possibility of ignition.

Magnesium: If heated: explosive reaction.

Strong bases and acids: Possibility of violent reaction.

Hazardous decomposition products

Carbon Oxides.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Algae - EC50: 0.042 mg/L

Daphnia - LC50: 98 µg/L

Fish- LC50: 320 ppm

Carcinogenicity

No known significant effects or critical hazards.

Teratogenicity

No known significant effects or critical hazards.

Mutagenicity

No known significant effects or critical hazards.

Respiratory or skin sensitization

Dust may cause respiratory tract irritation.

Inhalation

No known significant effects or critical hazards.

Skin contact

No known significant effects or critical hazards.

Eye contact

No known significant effects or critical hazards.

Ingestion

No toxic effects are expected following ingestion of this product.

12. ECOLOGICAL INFORMATION**Ecotoxicity**

Toxic to aquatic organisms, may cause long-term adverse effects environment. Avoid any pollution of ground, surface or underground water.

Persistence and degradability

Not available.

Bio - accumulative potential

Not available.

Mobility in soil

Not available.

Other adverse effects

Not available.

13. DISPOSAL CONSIDERATION

Dispose of product in accordance with local, state or provincial and federal regulations. Check with local municipal authority to ensure compliance.

14. TRANSPORT INFORMATION**UN Number**

3077

UN proper shipping name

Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)

Transport hazard class

9

Packing group

III

US DOT Shipping Description (Land)

3077

Proper shipping name

Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)

Class

9

Packaging group

III

IMO-IMDG Shipping Description (Sea)

3077

Proper shipping name

Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)

Class

9

Packaging group

III

IMO-IMDG code

3077

IMDG-Marine pollution

Yes.

IATA Shipping Description (Air)

3077

Proper shipping name

Environmentally hazardous substance, solid, n.o.s. (Zinc oxide)

Class

9

Packaging group

III

Emergency action in case of accident

Notify police and fire department immediately

15. REGULATORY INFORMATION

TSCA

All components are listed or exempted.

SARA 302

No products were found.

SARA 304

No products were found.

SARA 311

Zinc oxide: Immediate (acute) health hazard, Delayed (chronic) health hazard

16. OTHER INFORMATION

Revision date : April 25,2022

Disclaimer & Caution

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