



SAFETY DATA SHEET

NC01618
ZINC OXIDE USP/EP PWD

Preparation Date: 14/Feb/2019

Version: 1

1. IDENTIFICATION

Product identifier

Product Name ZINC OXIDE USP/EP PWD

Other means of identification

SDS Number NC01618

Synonyms Zinc white, Chinese white

Recommended use of the chemical and restrictions on use

Recommended Use Chemical intermediate Pharmaceutical Coatings Paint products. Ceramics. Rubber products

Restricted Uses No information available

Initial Supplier Identifier

Voyageur Soap & Candle Co.
Unit 14 - 19257 Enterprise Way
Surrey, BC V3S 6J8
Telephone: 1-800-758-7773

Emergency telephone number

24 Hour Emergency Phone Number (CANUTEC): 1-888-226-8832 (1-888-CAN-UTEC)

2. HAZARD IDENTIFICATION

Hazardous Classification of the substance or mixture

none

Label elements

Hazard pictograms None

Hazard statements

The mixture does not meet the criteria for classification.

Prevention

Wash hands thoroughly after handling

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

In case of inadequate ventilation wear respiratory protection

Response

Read the label and safety data sheet before use.

Flush eyes with plenty amounts of water.

If eye irritation persists: Get medical advice/attention

IF ON SKIN: Wash skin with plenty of water.

If skin irritation occurs: Get medical advice/attention

Move person to fresh air.

Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. Seek immediate medical attention. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

Storage

Store in accordance with good industrial practices.

Disposal

Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations

3. COMPOSITION/INFORMATION ON INGREDIENTS**Substance**

Chemical Name	CAS No	Weight-%	Synonyms
Zinc Oxide	1314-13-2	90 - 100%	Zinc Oxide

4. FIRST-AID MEASURES**Description of first aid measures****Inhalation**

Remove to fresh air.

Eye contact

Rinse thoroughly with plenty of water for at least 15 minutes, lifting lower and upper eyelids. Consult a physician.

Skin contact

Wash skin with soap and water.

Ingestion

Clean mouth with water and drink afterwards plenty of water.

Most important symptoms and effects, both acute and delayed:

May cause slight transient (temporary) eye irritation. Abdominal discomfort, nausea and vomiting may occur. May cause Metal Fume Fever which is characterized by chills, fever, aching muscles, dryness and metal taste in mouth

and throat, headaches, sneezing, nausea, and irritation of the nose and trachea. High concentrations of dust may cause coughing and mild, temporary irritation. Essentially nonirritating to skin, mechanical injury only.

Indication of any immediate medical attention and special treatment needed:

Note to physicians

Treatment based on sound judgment of physician and individual reactions of patient.

5. FIRE-FIGHTING MEASURES

Suitable Extinguishing Media

Use DRY chemicals, CO₂, alcohol foam or water spray. Use extinguishing media appropriate for surrounding fire. Not flammable.

Specific hazards arising from the substance or mixture

Will not burn or support combustion.

Hazardous combustion products

Metal oxides.

Special protective equipment and precautions for fire-fighters

Firefighters should wear self-contained breathing apparatus and full firefighting turnout gear. Use personal protection equipment.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Environmental precautions

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Consult local authorities.

Methods and materials for containment and cleaning up

Scoop up or vacuum up and place in an appropriate closed container. Use appropriate containment to avoid environmental contamination.

7. HANDLING AND STORAGE

Precautions for safe handling

Avoid contact with eyes, skin and clothing. Empty containers may contain hazardous product residues. Use with adequate ventilation. Wash thoroughly after handling. Do not breath dust.

Conditions for safe storage, including any incompatibilities

Keep containers tightly closed. Store in a cool, dry, well ventilated area, away from heat and ignition sources. Keep away from direct sunlight. Place away from incompatible materials. Store away from foodstuffs and animal feeds. Handle and open container with care. Do not store in unlabeled containers. Absorbs carbon dioxide in the air.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Control parameters

Exposure Limits This product, as supplied, does not contain any hazardous materials with occupational exposure limits established by the region specific regulatory bodies.

Chemical Name	Alberta OEL	British Columbia OEL	Ontario	Quebec OEL	Exposure Limit - ACGIH	Immediately Dangerous to Life or Health - IDLH
Zinc Oxide 1314-13-2	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 2 mg/m ³ STEL: 10 mg/m ³	TWA: 10 mg/m ³ TWA: 5 mg/m ³ STEL: 10 mg/m ³	10 mg/m ³ STEL 2 mg/m ³ TLV-TWA	500 mg/m ³

Consult local authorities for recommended exposure limits

Appropriate engineering controls

Engineering controls

Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If use conditions generate excessive airborne dust, use explosion-proof powered ventilation.

Individual protection measures, such as personal protective equipment

Eye/face protection

Safety glasses with side shields or chemical goggles.

Hand protection

Appropriate chemical resistant gloves should be worn.

Skin and body protection

Skin contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

Respiratory protection

If exposure exceeds occupational exposure limits, use an appropriate NIOSH-approved respirator.

General hygiene considerations

Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

Information on basic physical and chemical properties

Appearance

Physical state	Powder Fine
Color	White
Odor	Odorless
Odor threshold	No information available

PROPERTIES

<u>Properties</u>	<u>Values</u>	<u>Remarks • Method</u>
pH	No data available	None known
Melting point / freezing point	1975 °C / 3587 °F	None known
Initial boiling point/boiling range	No data available	None known
Flash point	No data available	None known
Evaporation rate	No data available	None known

Flammability (solid, gas)	No data available	None known
Flammability Limit in Air		
Upper flammability limit:	No data available	
Lower flammability limit:	No data available	
Vapor pressure	No data available	None known
Relative vapor density	No data available	None known
Specific Gravity	5.61	None known
Water solubility	Practically insoluble in water.	None known
Solubility in other solvents	No data available	None known
Partition coefficient	No data available	
Autoignition temperature	No data available	None known
Decomposition temperature	No data available	None known
Kinematic viscosity	No data available	None known
Dynamic viscosity	No data available	None known
Explosive properties	No information available.	
Oxidizing properties	No information available.	
Molecular weight	81.38	
VOC Percentage Volatility	No information available	
Liquid Density	No information available	
Bulk density	No information available	

10. STABILITY AND REACTIVITY

Reactivity/Chemical Stability

Stable under normal conditions

Possibility of hazardous reactions

No additional remark.

Conditions to avoid

Heat. High temperatures.

Incompatible materials

Strong acids. Strong bases. Magnesium. Linseed oil. Zinc oxide - Chlorinated Rubber.

Hazardous decomposition products

Metal oxides.

11. TOXICOLOGICAL INFORMATION

Information on likely routes of exposure

Inhalation

May cause Metal Fume Fever which is characterized by chills, fever, aching muscles, dryness and metal taste in mouth and throat, headaches, sneezing, nausea, and irritation of the nose and trachea. High concentrations of dust may cause coughing and mild, temporary irritation.

Eye contact

May cause slight transient (temporary) eye irritation.

Skin contact

Essentially nonirritating to skin, mechanical injury only.

Ingestion

Abdominal discomfort, nausea and vomiting may occur.

Information on toxicological effects

Symptoms

No information available.

Numerical measures of toxicity

Acute toxicity

Unknown acute toxicity No information available

Chemical Name	Oral LD50	Dermal LD50	Inhalation LC50
Zinc Oxide 1314-13-2	> 5000 mg/kg (Rat)	Not available	Not available

Delayed and immediate effects as well as chronic effects from short and long-term exposure

Skin corrosion/irritation

Essentially nonirritating to skin, mechanical injury only.

Serious eye damage/eye irritation

May cause slight transient (temporary) eye irritation.

Respiratory or skin sensitization

No information available.

Germ cell mutagenicity

No information available.

Carcinogenicity

No information available.

Chemical Name	ACGIH	IARC	NTP	OSHA
Zinc Oxide 1314-13-2	Not available	Not available	Not available	Not available

Reproductive toxicity

No information available.

Specific target organ systemic toxicity - single exposure

No information available.

Specific target organ systemic toxicity - repeated exposure

No information available.

Aspiration hazard

No information available.

12. ECOLOGICAL INFORMATION

Ecotoxicity

The environmental impact of this product has not been fully investigated.

Chemical Name	Ecotoxicity - Freshwater Algae Data	Ecotoxicity - Fish Species Data	Toxicity to microorganisms	Crustacea
Zinc Oxide	Not available	Not available	Not available	Not available

1314-13-2			
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Persistence and degradability No information available.

Bioaccumulation No information available.

Chemical Name	Partition coefficient
Zinc Oxide 1314-13-2	Not available

Other adverse effects No information available.

13. DISPOSAL CONSIDERATIONS

Waste treatment methods

Dispose of in accordance with local regulations. Dispose of waste in accordance with environmental legislation.

Do not reuse empty containers.

14. TRANSPORT INFORMATION

TDG (Canada):

UN Number UN3077
Shipping name ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S. (ZINC OXIDE)
Class 9
Packing Group III
Marine pollutant Yes.
Note Regulated for marine transportation only, if transported by road or rail product is not TDG Regulated.

DOT (U.S.)

UN Number Not applicable
Shipping name Not regulated
Class Not applicable
Packing Group Not applicable
Marine pollutant Not available

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

U.S. Regulatory Rules

Chemical Name	CERCLA/SARA - Section 302:	SARA (311, 312) Hazard Class:	CERCLA/SARA - Section 313:
Zinc Oxide - 1314-13-2	Not Listed	Not Listed	Listed

International Inventories

TSCA All components of this product are either on the Toxic Substances Control Act (TSCA) Inventory List or exempt.

DSL/NDSL All components of this product are either on the Domestic Substances List (DSL), the Non-Domestic Substances List (NDSL) or exempt.

Legend:

TSCA - United States Toxic Substances Control Act Section 8(b) Inventory

DSL/NDSL - Canadian Domestic Substances List/Non-Domestic Substances List

16. OTHER INFORMATION, INCLUDING DATE OF PREPARATION OF THE LAST REVISION

NFPA:	Health hazards 0	Flammability 0	Instability 0	Physical and chemical properties - Personal protection X
HMIS:	Health hazards 0	Flammability 0	Physical hazards 0	

Legend Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION
 TWA TWA (time-weighted average) STEL STEL (Short Term Exposure Limit)
 Ceiling Maximum limit value * Skin designation

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End of Safety Data Sheet