



Section 1. Identification

Product identifier

Product Identity Zinc Oxide (CHE-3200S)
Other means of identification CPROX
Relevant identified uses of the substance or mixture and uses advised against Industrial applications.

Restrictions on use:

Not available

Details of the supplier of the safety data sheet

Company Name Chemtrade Logistics Inc. (Canada)
155 Gordon Baker Road Suite 300
Toronto, Ontario M2H 3N5
(416) 496-5856

Chemtrade Logistics Inc. (US)
90 East Halsey Road, Suite 200
Parsippany, NJ 07054
(800) 228- 8558

Emergency

24 hour Emergency Telephone No. Chemtrade Emergency Contact: (866) 416-4404 (US and Canada)
CHEMTREC +1-800-424-9300
For Chemical Emergency, Spill, Leak, Fire, Exposure, or Accident, call CHEMTREC – Day or Night
Customer Service: For SDS Info: (416) 496-5856
www.chemtradelogistics.com

Section 2. Hazard(s) identification

Classification of the substance or mixture

Aquatic toxicity (acute), category 1;H400 Very toxic to aquatic life.
Aquatic toxicity (chronic), category 1;H410 Very toxic to aquatic life with long lasting effects.

Label elements

Warning

H410 Very toxic to aquatic life with long lasting effects.

[Prevention]:

P273 Avoid release to the environment.

[Response]:

P391 Collect spillage.

[Storage]:

No GHS storage statements

[Disposal]:

P501 Dispose of contents or container in accordance with local and national regulations.

Other hazards

This product contains no PBT/vPvB/vPvM chemicals.

This product contains no endocrine disrupting chemicals.

Does NOT contain component(s) that meet a 'definition' of per & poly fluoroalkyl substance (PFAS) per the US EPA PFASMASTER combined list of PFAS chemicals.

Section 3. Composition/information on ingredients

This product contains the following substances that present a hazard within the meaning of the Hazardous Products Regulations.

Ingredient/Chemical Designations	Weight %	GHS Classification	Notes
Zinc oxide CAS Number: 1314-13-2 Synonyms: No available information	80 - 100	Aquatic toxicity (acute), category 1;H400 Aquatic toxicity (chronic), category 1;H410	No data available

The actual concentration or concentration range is withheld as a trade secret.

*PBT/vPvB - PBT, vPvM or vPvB-substance.

The full texts of the phrases are shown in Section 16.

The specific chemical identity and/or exact percentage of composition are withheld as a trade secret within the meaning of the OSHA Hazard Communication Standard [29 CFR 1910.1200].

Section 4. First aid measures**Description of first aid measures**

General	In all cases of doubt, or when symptoms persist, seek medical attention. Never give anything by mouth to an unconscious person.
Inhalation	Remove to fresh air, keep patient warm and at rest. If unconscious, place in the recovery position and obtain immediate medical attention. Give nothing by mouth.
Eyes	Irrigate copiously with clean water for at least 30 minutes, holding the eyelids apart and seek medical attention. Remove contact lenses, if present and easy to do. Continue rinsing.
Skin	Remove contaminated clothing. Wash skin thoroughly with soap and water or use a recognized skin cleanser. Drench affected area with water for at least 30 minutes. Obtain medical attention if irritation develops or persists.
Ingestion	If swallowed obtain immediate medical attention. Keep at rest. Do NOT induce vomiting.

Most important symptoms and effects, both acute and delayed

Overview	No specific symptom data available. General: None expected under normal conditions of use. Inhalation: Dust from this product may cause irritation to the respiratory tract. Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation. Eye Contact: Dust from this product may cause minor eye irritation. Ingestion: Ingestion may cause adverse effects. Indication of Any Immediate Medical Attention and Special Treatment Needed: If exposed or concerned, get medical advice and attention. See section 2 for further details.
Chronic effects	Chronic Symptoms: If heated to the point of fume generation zinc fumes may cause metal fume fever. Otherwise, zinc is non-toxic.

Section 5. Fire-fighting measures**Extinguishing media**

Suitable Extinguishing Media: Use extinguishing media appropriate for surrounding fire.

Unsuitable extinguishing media: Do not use water jet, or heavy water stream. Use of heavy stream of water may spread fire.

Special hazards arising from the substance or mixture

Hazardous decomposition: Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Advice for fire-fighters

As with all fires, wear positive pressure, self-contained breathing apparatus, (SCBA) with a full-face piece and protective clothing. Persons without respiratory protection should leave area. Wear SCBA during clean up immediately after fire. No smoking.

Fire Hazard: Not considered flammable.

Explosion Hazard: Product is not explosive.

Reactivity: Violent reaction may occur if chlorinated rubber and zinc oxide are heated to 215°C. Exothermic reaction will occur when mixed with flax oil with the possibility of ignition. Violent reaction may occur if magnesium powder or aluminum powder is heated with zinc oxide with the possibility of ignition.

Firefighting Instructions: Do not enter fire area without proper protective equipment, including respiratory protection. Use water spray or fog for cooling exposed containers. **Exercise caution when fighting any chemical fire.**

Hazardous Combustion Products: If heated to the point of fume generation zinc fumes may cause metal fume fever. Otherwise, zinc is non-toxic.

Other Information: Do not allow run-off from firefighting to enter drains or water courses.

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Section 6. Accidental release measures**Personal precautions, protective equipment and emergency procedures**

General Measures: Evacuate surrounding areas. Keep unnecessary and unprotected personnel from entering. Do not touch or walk through spilled material. Avoid contact with eyes, skin and clothing. Provide adequate ventilation. Wear appropriate respirator when ventilation is inadequate. Put on appropriate personal protective equipment. See Section 8.

Use only outdoors or in a well-ventilated area. Do not breathe dust.

Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE). Wear protective gloves, eye protection, face protection (refer to section 8 for more details).

Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

Environmental precautions

Prevent entry to sewers and public waters. Avoid release to environment.

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

Methods and material for containment and cleaning up

Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit.

Ventilate area.

Methods for Clean up: Clean up spills immediately and dispose of waste safely. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

Containment: Contain any spills with dikes or absorbents to prevent migration and entry into sewers or streams. As an immediate precautionary measure, isolate spill or leak area in all directions. Ventilate area. Equip cleanup crew with proper protection.

Section 7. Handling and storage

Precautions for safe handling

Handle containers carefully to prevent damage and spillage.

Use only outdoors or in a well-ventilated area. Do not breathe mist, spray, and vapours.

Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE). Wear protective gloves, eye protection, face protection (refer to section 8 for more details).

Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details. - [Prevention]:

Conditions for safe storage, including any incompatibilities

Store in a dry, cool and well-ventilated place. Containers which are opened should be properly resealed and kept upright to prevent leakage. Keep container closed when not in use. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials.

Additional Hazards When Processed: Use care during processing to minimize generation of dust.

Incompatible materials: Strong acids, strong bases

See section 2 for further details. - [Storage]:

Specific end use(s)

Industrial applications.

Restrictions on use:

Not available

Section 8. Exposure controls / personal protection

Control parameters

Exposure Limits

CAS No.	Ingredient	Source	Value
1314-13-2	Zinc oxide	ACGIH	2 mg/m ³ (R) Respirable fraction 10 mg/m ³ (R) Respirable fraction
		OSHA	5 mg/m ³ (fume and respirable fraction), 15 mg/m ³ (total dust)
		NIOSH	10 mg/m ³ STEL (fume)
		Alberta	2 mg/m ³ TWA (respirable) 10 mg/m ³ STEL (respirable)
		British Columbia	2 mg/m ³ TWA (respirable) 10 mg/m ³ STEL (respirable)
		Manitoba	2 mg/m ³ TWA (respirable particulate matter) 10 mg/m ³ STEL (respirable particulate matter)
		New Brunswick	10 mg/m ³ TWA (particulate matter containing no Asbestos and <1% Crystalline silica, dust); 5 m 10 mg/m ³ STEL (fume)

		Newfoundland and Labrador	2 mg/m ³ TWA (respirable particulate matter) 10 mg/m ³ STEL (respirable particulate matter)
		Nova Scotia	2 mg/m ³ TWA (respirable particulate matter) 10 mg/m ³ STEL (respirable particulate matter)
		Northwest Territories	2 mg/m ³ TWA (dust and fume; respirable fraction) 10 mg/m ³ STEL (dust and fume; respirable fraction)
		Nunavut	2 mg/m ³ TWA (dust and fume; respirable fraction) 10 mg/m ³ STEL (dust and fume; respirable fraction)
		Ontario	2 mg/m ³ TWA (respirable) 10 mg/m ³ STEL (respirable)
		Prince Edward Island	2 mg/m ³ TWA (respirable particulate matter) 10 mg/m ³ STEL (respirable particulate matter)
		Quebec	10 mg/m ³ TWAEV (containing no Asbestos and <1% Crystalline silica, total dust); 5 mg/m ³ TWAEV (10 mg/m ³ STEV (fume)
		Saskatchewan	2 mg/m ³ TWA (dust and fume, respirable fraction) 10 mg/m ³ STEL (dust and fume, respirable fraction)
		Yukon	5 mg/m ³ TWA (fume); 30 mppcf TWA (dust); 10 mg/m ³ TWA (dust) 10 mg/m ³ STEL (fume)

Exposure controls
Respiratory

If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

Eyes

Chemical safety goggles

Skin

Avoid skin contact. Avoid skin contact. Wear protective gloves. Wear suitable protective clothing.

Materials for Protective Clothing: Chemically resistant materials and fabrics.

Engineering Controls

Exposure Controls Appropriate Engineering Controls: Emergency eyewash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

Other Work Practices

Put on appropriate personal protective equipment. Chemically compatible gloves, protective clothing, and chemical resistant safety goggles. Use only outdoors or in a well-ventilated area. Do not breathe dust.

Do not get in eyes, on skin, or on clothing. Use appropriate personal protection equipment (PPE). Wear protective gloves, eye protection, face protection (refer to section 8 for more details).

Use good personal hygiene practices. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Promptly remove soiled clothing and wash thoroughly before reuse.

See section 2 for further details.

Section 9. Physical and chemical properties**Information on basic physical and chemical properties**

Physical State	Solid
Color	White or yellowish-white powder or crystals
Odor	Odorless
Odor threshold	No available information
Melting point / freezing point	1975 °C (3587 °F)
Initial boiling point and boiling range	No available information
Flammability (solid, gas)	Not Applicable
Upper/lower flammability or explosive limits	Lower Explosive Limit: No available information Upper Explosive Limit: No available information
Flash Point	No available information
Auto-ignition temperature	No available information
Decomposition temperature	No available information
pH	6.5 - 7 (estimated)
Viscosity (cSt)	No available information
Solubility in Water	No available information
Partition coefficient n-octanol/water (Log Kow)	No available information
Vapour pressure (Pa)	4 mm Hg
Relative Density	35 - 45 lb/ft ³
Vapour Density	No available information
Particle Characteristics	85% through a 325 mesh screen (0.0017 inches; 0.044 mm)
Evaporation rate (Ether = 1)	No available information
Specific Gravity	5.61 @ 20°C (68 °F)
Other information	No other relevant information.

Section 10. Stability and reactivity**Reactivity**

Violent reaction may occur if chlorinated rubber and zinc oxide are heated to 215°C. Exothermic reaction will occur when mixed with flax oil with the possibility of ignition. Violent reaction may occur if magnesium powder or aluminum powder is heated with zinc oxide with the possibility of ignition.

Chemical stability

Stable under recommended handling and storage conditions (see section 7).

Possibility of hazardous reactions

Hazardous polymerization will not occur.

Conditions to avoid

Direct sunlight, extremely high or low temperatures, and incompatible materials.

Incompatible materials

Strong acids, strong bases

Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

Section 11. Toxicological information
Acute toxicity

Note: When no route specific LD50 data is available for an acute toxin, the converted acute toxicity point estimate was used in the calculation of the product's ATE (Acute Toxicity Estimate).

	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Product Acute Toxicity Estimates	NA	NA	NA	NA	NA

Ingredient	Oral LD50, mg/kg	Skin LD50, mg/kg	Inhalation Vapor LC50, mg/L/4hr	Inhalation Dust/Mist LC50, mg/L/4hr	Inhalation Gas LC50, ppm
Zinc oxide - (1314-13-2)	> 5,000.00, Rat - Category: NA	No data available.	No data available.	5.70, Rat - Category: 5	No data available.

Carcinogen Data

CAS No.	Ingredient	Source	Value
1314-13-2	Zinc oxide	IARC	No
		ACGIH	No Established Limit

Classification	Category	Hazard Description
Acute toxicity (oral)	---	Not Applicable
Acute toxicity (dermal)	---	Not Applicable
Acute toxicity (inhalation)	---	Not Applicable
Skin corrosion/irritation	---	Not Applicable
Serious eye damage/irritation	---	Not Applicable
Respiratory sensitization	---	Not Applicable
Skin sensitization	---	Not Applicable
Germ cell mutagenicity	---	Not Applicable
Carcinogenicity	---	Not Applicable
Reproductive toxicity	---	Not Applicable

STOT-single exposure	---	Not Applicable
STOT-repeated exposure	---	Not Applicable
Aspiration hazard	---	Not Applicable

Possible routes of entry:

Inhalation, ingestion, skin contact, and skin absorption.

Symptoms and effects, both acute and delayed:

No specific symptom data available.

General: None expected under normal conditions of use.

Inhalation: Dust from this product may cause irritation to the respiratory tract.

Skin Contact: Prolonged contact with large amounts of dust may cause mechanical irritation.

Eye Contact: Dust from this product may cause minor eye irritation.

Ingestion: Ingestion may cause adverse effects.

Indication of Any Immediate Medical Attention and Special Treatment Needed: If exposed or concerned, get medical advice and attention.

Chronic effects

Chronic Symptoms: If heated to the point of fume generation zinc fumes may cause metal fume fever. Otherwise, zinc is non-toxic.

Section 12. Ecological information
Toxicity

Very toxic to aquatic life.

Very toxic to aquatic life with long lasting effects.

No additional information provided for this product. See Section 3 for chemical specific data.

Aquatic Ecotoxicity

Ingredient	96 hr LC50 fish, mg/l	48 hr EC50 crustacea, mg/l	ErC50 algae, mg/l
Zinc oxide - (1314-13-2)	No data available.	101.00, Daphnia magna	No data available.

Persistence and degradability

There is no data available on the preparation itself.

Bioaccumulative potential

No available information

Mobility in soil

No available information

Results of PBT and vPvB assessment

This product contains no PBT/vPvB/vPvM chemicals.

Other adverse effects

No available information

Section 13. Disposal considerations

Waste treatment methods

Dispose of waste material in accordance with all local, regional, federal, provincial, state, territorial and international regulations.

Ecology - Waste Materials: Avoid release to the environment. This material is hazardous to the aquatic environment. Keep out of sewers and waterways.

Section 14. Transport information



Classification Method: Classified as per Part 2, Sections 2.1-2.8 of the Transportation of Dangerous Goods Regulations.

DOT (Domestic Surface Transportation)

UN number	UN3077
UN proper shipping name	UN3077, Environmentally hazardous substances, solid, n.o.s. (Contains Zinc Oxide), 9, III
Transport hazard class(es)	9
Sub Class	Not Applicable
Packing group	III

TDG (Domestic Surface Transportation)

UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Contains Zinc Oxide)
Transport hazard class(es)	9
Sub Class	Not Applicable
Packing group	III

IMO / IMDG (Ocean Transportation)

UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Contains Zinc Oxide)
Transport hazard class(es)	9
Sub Class	Not Applicable
Packing group	III

ICAO/IATA	
UN number	UN3077
UN proper shipping name	Environmentally hazardous substances, solid, n.o.s. (Contains Zinc Oxide)
Transport hazard class(es)	9
Sub Class	Not Applicable
Packing group	III

Environmental hazards

IMDG Marine Pollutant: Yes; (Zinc oxide)

Special precautions for user

No available information

Section 15. Regulatory information

Regulatory Overview The regulatory data in Section 15 is not intended to be all-inclusive, only selected regulations are represented.

Toxic Substance Control Act (TSCA) All components of this material are either listed or exempt from listing on the TSCA Inventory.

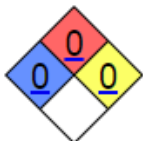
NFPA Ranking

Health (blue) :0

Fire (red) :0

Reactivity (yellow) :0

Special (white) :--


Toxic Substance Control Act (TSCA)

Water

Zinc oxide

CERCLA Chemicals and RQs:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 302 Extremely Hazardous:

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

EPCRA 313 Toxic Chemicals:

Zinc oxide

Canadian Domestic Substance List (DSL):

Water

Zinc oxide



Canadian Non-Domestic Substance List (NDSL):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

New Jersey RTK Substances (>1%):

Zinc oxide

Pennsylvania RTK Substances (>1%):

Zinc oxide

Proposition 65 - Carcinogens (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Developmental Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Female Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 - Male Repro Toxins (>0.0%):

To the best of our knowledge, there are no chemicals at levels which require reporting under this statute.

Proposition 65 Label Warning:

This product contains no chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

Chemical Name (CAS Number)	US TSCA	Australia AICS	Korea ECL	EU EINECS	EU ELINCS	EU SVHC	EN NLP	Mexico INSQ
Zinc oxide (1314-13-2)	Yes	Yes	Yes	Yes	No	No	No	Yes

Chemical Name (CAS Number)	China IECSC	Japan ENCS	Japan ISHL	Japan PDSCS	Japan PRTR 1	Japan PRTR 2	Philippines PICCS	New Zealand NZIOC
Zinc oxide (1314-13-2)	Yes	Yes	Yes	No	No	No	Yes	Yes

Section 16. Other information

Revision Date 11/04/2025

Revision Number 6

The information and recommendations contained herein are based upon data believed to be correct. However, no guarantee or warranty of any kind, expressed or implied, is made with respect to the information contained herein. We accept no responsibility and disclaim all liability for any harmful effects which may be caused by exposure to our products.

Customers/users of this product must comply with all applicable health and safety laws, regulations, and orders.

The full text of the phrases appearing in section 3 is:

H400 Very toxic to aquatic life.

H410 Very toxic to aquatic life with long lasting effects.

Disclaimer: The information presented herein is supplied as a guide to those who handle or use this product. Safe work practices must be employed when working with any materials. It is important that the end user makes a determination regarding the adequacy of the safety procedures employed during the use of this product.

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