

ZINC CARBONATE

SECTION 1. IDENTIFICATION

Product Identifier	ZINC CARBONATE
Other Means of Identification	Inorganic zinc salt
Product Family	H2S Scavenger
Recommended Use	Drilling Fluid Additive.
Supplier Identifier	Bri-Chem Supply Ltd., Bay 4, 5510 - 3rd Street SE, Calgary, Alberta, T2H 1J9, Bri-Chem Supply, 403-252-5904, www.brichemsupply.com
Emergency Phone No.	ChemTrec, (800) 424-9300, 24/7

SECTION 2. HAZARD IDENTIFICATION

Classification

Skin irritation - Category 3; Eye irritation - Category 2B

Label Elements

Signal Word:

WARNING!

Hazard Statement(s):

Causes mild skin irritation.

Causes eye irritation.

Precautionary Statement(s):

Prevention:

Wash hands and skin thoroughly after handling.

Response:

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

If skin irritation occurs: Get medical advice or attention.

If eye irritation persists: Get medical advice or attention.

SECTION 3. COMPOSITION/INFORMATION ON INGREDIENTS

Contains no hazardous ingredients.

Chemical Name	CAS No.	%	Other Identifiers	Other Names
Zinc carbonate, basic	3486-35-9	100		

SECTION 4. FIRST-AID MEASURES

First-aid Measures

Inhalation

Move to fresh air. If experiencing respiratory symptoms (e.g. coughing, shortness of breath, wheezing), call a Poison Centre or doctor.

Skin Contact

Wash gently and thoroughly with lukewarm, gently flowing water and mild soap for 5 minutes. If irritation develops

or persists, seek medical attention. Launder contaminated clothing before re-use.

Eye Contact

Immediately rinse the contaminated eye(s) with lukewarm, gently flowing water for 15-20 minutes, while holding the eyelid(s) open. If adverse symptoms persist, seek medical attention.

Ingestion

If conscious give 2 to 4 glasses of water to drink but DO NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing victim. Get prompt medical attention.

First-aid Comments

If exposed or concerned, get medical advice or attention.

Immediate Medical Attention and Special Treatment

Special Instructions

Advise of zinc carbonate exposure.

SECTION 5. FIRE-FIGHTING MEASURES

Extinguishing Media

Suitable Extinguishing Media

Carbon dioxide, dry chemical powder, appropriate foam, water spray or fog.

Specific Hazards Arising from the Product

Can ignite if strongly heated. May burn with surrounding fire.

Decomposes at melting point (300°C) to oxides of zinc and carbon.

Special Protective Equipment and Precautions for Fire-fighters

Use water spray from a safe distance to cool fire-exposed containers.

Chemical protective clothing (e.g. chemical splash suit) and positive pressure SCBA may be necessary.

SECTION 6. ACCIDENTAL RELEASE MEASURES

Personal Precautions, Protective Equipment, and Emergency Procedures

Use the personal protective equipment recommended in Section 8 of this safety data sheet.

Environmental Precautions

Do not allow into any sewer, on the ground or into any waterway.

Methods and Materials for Containment and Cleaning Up

Use appropriate safety equipment. Small spills, sweep up and put into approved DOT containers for disposal or re-use.

Large spills, do not allow to enter waterways, sweep or shovel into approved DOT containers for re-use or disposal.

SECTION 7. HANDLING AND STORAGE

Precautions for Safe Handling

Avoid ingestion. Avoid skin and eye contact. Practice reasonable caution and personal cleanliness.

It is good practice to: avoid breathing product; avoid skin and eye contact and wash hands after handling.

Conditions for Safe Storage

Store in a cool, dry, well-ventilated place. Keep container tightly closed and away from incompatible materials.

SECTION 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Appropriate Engineering Controls

Provide mechanical ventilation to prevent dust concentrations and to reduce potential exposure.

Individual Protection Measures

Eye/Face Protection

Wear chemical safety goggles.

Skin Protection

Product Identifier: ZINC CARBONATE - Ver. 1

SDS No.: 1163

Date of Preparation: April 04, 2016

Date of Last Revision: July 02, 2020

Page 02 of 05

Wear chemical protective clothing e.g. gloves, aprons, boots.

Respiratory Protection

Not normally required if product is used as directed. If dust is generated and/or if ventilation is inadequate, use respirator that will protect against dust/mist.

SECTION 9. PHYSICAL AND CHEMICAL PROPERTIES

Basic Physical and Chemical Properties

Appearance	White powder. Particle Size: Not available
Odour	Odourless
Odour Threshold	Not available
pH	Not available
Melting Point/Freezing Point	300 °C (melting); Not applicable (freezing)
Initial Boiling Point/Range	Not applicable
Flash Point	Not available
Evaporation Rate	Not available
Upper/Lower Flammability or Explosive Limit	Not available (upper); Not available (lower)
Vapour Pressure	Not available
Vapour Density (air = 1)	Not available
Relative Density (water = 1)	4.398
Solubility	Insoluble in water; Moderately soluble in acids (e.g. acetic acid).
Partition Coefficient, n-Octanol/Water (Log Kow)	Not available
Auto-ignition Temperature	Not available
Decomposition Temperature	300 °C
Viscosity	Not available (kinematic)
Other Information	
Physical State	Solid
Molecular Formula	$3\text{Zn}(\text{OH})_2 \cdot 2\text{ZnCO}_3$
Molecular Weight	549
Bulk Density	Not available
Surface Tension	Not available
Critical Temperature	Not available
Electrical Conductivity	Not available
Vapour Pressure at 50 deg C	Not available
Saturated Vapour Concentration	Not available

SECTION 10. STABILITY AND REACTIVITY

Chemical Stability

Normally stable.

Possibility of Hazardous Reactions

Hazardous polymerization will not occur.

Conditions to Avoid

None known.

Incompatible Materials

Acids react giving off heat.

Product Identifier: ZINC CARBONATE - Ver. 1
Date of Preparation: April 04, 2016
Date of Last Revision: July 02, 2020

SDS No.: 1163

Page 03 of 05

Hazardous Decomposition Products

Decomposition creates oxides of zinc, which causes "brass chills" or "brass founder auge"; may cause damage to mucous membranes.

SECTION 11. TOXICOLOGICAL INFORMATION

This product may cause a slight general irritancy and mild effects of acute/chronic exposure.

Skin Corrosion/Irritation

Prolonged exposure may cause irritation.

Serious Eye Damage/Irritation

May cause some irritation and/or redness.

STOT (Specific Target Organ Toxicity) - Single Exposure

Inhalation

May cause some respiratory irritation.

Ingestion

May cause nausea and vomiting. Large doses are self-purging.

STOT (Specific Target Organ Toxicity) - Repeated Exposure

No information available.

Respiratory and/or Skin Sensitization

Not a known sensitizer.

Carcinogenicity

Not considered a carcinogen by IARC, NTP and OSHA.

Reproductive Toxicity

Development of Offspring

Not a known teratogen.

Sexual Function and Fertility

(Zinc carbonate) animal studies show effects on sexual function and/or fertility. Oral (mice): TDLo 2,800 mg/kg abnormalities (skin and skin appendages).

Germ Cell Mutagenicity

Not a known mutagen.

SECTION 12. ECOLOGICAL INFORMATION

No ecotoxicity or environmental fate data available. It is good practice to prevent releases into the environment.

SECTION 13. DISPOSAL CONSIDERATIONS

Disposal Methods

Dispose in accordance with federal, provincial and local government regulations. Containers should NOT be re-used. Containers should be disposed of in accordance with government guidelines.

SECTION 14. TRANSPORT INFORMATION

Not regulated under Canadian TDG regulations.

Special Precautions Please note: No special requirements.

Transport in Bulk According to Annex II of MARPOL 73/78 and the IBC Code

Not applicable

SECTION 15. REGULATORY INFORMATION

Product Identifier: ZINC CARBONATE - Ver. 1

SDS No.: 1163

Date of Preparation: April 04, 2016

Date of Last Revision: July 02, 2020

Page 04 of 05

Safety, Health and Environmental Regulations

Canada

WHMIS 1988 Classification

Not a WHMIS controlled product.

Additional Canadian Regulatory Lists

This product has been classified according to the hazard criteria of the CPR and the MSDS contains all the information required by the CPR.

SECTION 16. OTHER INFORMATION

SDS Prepared By Bri-Chem Supply Ltd

Phone No. (403) 252-5904

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Disclaimer This Health and Safety information is correct to the best of our knowledge and belief at the date of its publication, but we cannot accept liability for any loss, injury or damage which may result from its use. We shall ensure, so far as is reasonably practicable, that any revision of this Data Sheet is sent to all customers to whom we have directly supplied this substance, but must point out that it is the responsibility of any intermediate supplier to ensure that such revision is passed to the ultimate user. The information given in the Data Sheet is designed only as guidance for safe handling, storage, and the use of the substance. It is not a specification nor does it guarantee any specific properties. All chemicals should be handled only by competent personnel, within a controlled environment. Should further information be required, this can be obtained through the sales office whose address is at the top of this data sheet.

Product Identifier: ZINC CARBONATE - Ver. 1

SDS No.: 1163

Date of Preparation: April 04, 2016

Date of Last Revision: July 02, 2020

Page 05 of 05