

Material Safety Data Sheet Zinc Carbonate

Section 1 - Product Identification

Synonym : Zinc monocarbonate
Chemical Formula : ZnCO_3
Company Identification : Tradeasia International Pte. Limited
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Recommended use : laboratory and analytical use, laboratory chemical

Section 2 – Hazards Identification

2.1. Classification

Classification according to GHS:

Hazardous to the aquatic environment - acute hazard

H400: Very toxic to aquatic life

Hazardous to the aquatic environment - chronic hazard

H411: toxic to aquatic life with long lasting effects

2.2. Label elements

Symbols/Pictograms



Signal Word

Warning

Hazard Statements

H410: Very toxic to aquatic life with long lasting effects

Precautionary Statements

P273: Avoid release to the environment.

2.3. Other hazards

Not available

Section 3 – Composition/Information on Ingredients

3.1 Composition comments

Chemical Name	EC No/CAS No	Purity, %
Zinc carbonate	3486-35-9	69.7-74.68

Section 4 – First-Aid Measures

4.1. Description of first aid measures

General advice

Take off contaminated clothing.

Eyes

Rinse cautiously with water for several minutes. In all cases of doubt, or when symptoms persist, seek medical advice.

Skin

Rinse skin with water/shower.

Ingestion

Rinse mouth. Call a doctor if you feel unwell.

Inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

4.2. Most important symptoms and effects, both acute and delayed

Not available

4.3. Indication of any immediate medical attention and special treatment needed

Not applicable

Section 5 – Fire Fighting Measures

5.1. Suitable Extinguishing media

Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Use water spray, foam, dry extinguishing powder, carbon dioxide (CO₂)

5.2. Unsuitable Extinguishing media

Water jet

5.3. Specific hazards arising from the chemical

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO₂)

5.4. Special protective actions for fire-fighters

Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation and inhalation of dust in all circumstances.

6.2. Environmental precautions

Keep away from drains, surface and groundwater. Retain contaminated washing water and dispose of it.

6.3. Methods and material for containment and cleaning up

Advice on how to contain a spill: Covering of drains.

Advice on how to clean up a spill: Take up mechanically. Control of dust.

Other information relating to spills and releases: Place in appropriate containers for disposal.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Wash hands thoroughly before and after handling. Keep away from food, drink and animal feedingstuffs. Minimize dust generation and accumulation (remove dust deposits).

7.2. Conditions for safe storage, including any incompatibilities

Store in a dry place. Use local and general ventilation. Recommended storage temperature: 15 – 25 °C.

Section 8 – Exposure Controls/Personal Protection

8.1. Individual protection measures, such as personal protective equipment (PPE)

Eye/face protection

Use safety goggles with side protection.

Skin protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 °C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact the manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

Respiratory protection

Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).

Control of environmental exposure

Keep away from drains, surface and groundwater.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical State: solid (powder)

Appearance: colourless - light yellow

Odor: Odorless

pH: Not available

Vapor Pressure: Not available

Vapor Density: Not available

Evaporation Rate: Not available
Boiling Point: Not available
Freezing/Melting Point: not available
Decomposition Temperature: >295,5 °C
Solubility: practically insoluble
Density: 4,4 g/cm³

Section 10 – Stability and Reactivity

10.1. Reactivity

This material is not reactive under normal ambient conditions.

10.2. Chemical stability

Stable under normal temperatures and pressures.

10.3. Possibility of hazardous reactions

No known hazardous reactions.

10.4. Conditions to avoid:

Keep away from heat. Decomposition takes place from temperatures above: >295,5 °C.

10.5. Incompatible materials

Not available.

10.6. Hazardous decomposition products

In case of fire may be liberated: carbon monoxide (CO), carbon dioxide (CO₂).

Section 11 – Toxicological Information

11.1 Health effects associated with ingredients

Acute toxicity

Shall not be classified as acutely toxic.

Skin corrosion/irritation

Shall not be classified as corrosive/irritant to skin.

Serious eye damage/eye irritation

Shall not be classified as seriously damaging to the eye or eye irritant.

Respiratory or skin sensitization

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Carcinogenicity

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Reproductive toxicity

Shall not be classified as germ cell mutagenic, carcinogenic nor as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Section 12 – Ecological Information

12.1. Ecotoxicity

Aquatic toxicity (acute): very toxic to aquatic organisms.

Aquatic toxicity (chronic): may cause long-term adverse effects in the aquatic environment.

12.2. Bioaccumulative potential

BCF: 0,002 (ECHA)

12.3. Mobility in soil

Not available

12.4. Persistence and Degradability

The methods for determining the biological degradability are not applicable to inorganic substances.

12.5. Other adverse effects

Not available

Section 13 – Disposal Considerations

13.1. Disposal methods

Sewage disposal-relevant information: Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings: It is a dangerous waste; only packaging which is approved (e.g. acc. to ADR) may be used.

Disposal should be in accordance with applicable regional, national and local laws and regulations. Incinerate at a licensed installation.

Section 14 – Transport Information

14.1. UN Model Regulations

UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazardous ingredients	Zinc carbonate
Transport hazard class(es)	9 (miscellaneous dangerous substances and articles) (environmentally hazardous)
Packing Group	III
Environmental hazards	hazardous to the aquatic environment

14.2. Transport of dangerous goods by road, rail and inland waterway (ADR/RID/ADN)

UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.

Hazardous ingredients	Zinc carbonate
Transport hazard class(es)	9
Packing Group	III
Environmental hazards	yes

14.3. International Maritime Dangerous Goods Code (IMDG)

UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazardous ingredients	Zinc carbonate
Transport hazard class(es)	9
Packing Group	III
Marine pollutant	yes (P) (hazardous to the aquatic environment)

14.4. International Civil Aviation Organization (ICAO-IATA/DGR)

UN number	UN3077
UN proper shipping name	ENVIRONMENTALLY HAZARDOUS SUBSTANCE, SOLID, N.O.S.
Hazardous ingredients	Zinc carbonate
Transport hazard class(es)	9
Packing Group	III
Environmental hazards	yes

Section 15 – Regulatory Information

15.1. Safety, health and environmental regulations

Substance is listed in the following national inventories:

- CICR Chemical Inventory and Control Regulation
- CSCL-ENCS List of Existing and New Chemical Substances (CSCL-ENCS)
- DSL Domestic Substances List (DSL)
- ECSI EC Substance Inventory (EINECS, ELINCS, NLP)
- IECSC Inventory of Existing Chemical Substances Produced or Imported in China
- INSQ National Inventory of Chemical Substances
- KECI Korea Existing Chemicals Inventory
- NZIoC New Zealand Inventory of Chemicals
- PICCS Philippine Inventory of Chemicals and Chemical Substances (PICCS)
- REACH Reg. REACH registered substances
- TCSI Taiwan Chemical Substance Inventory
- TSCA Toxic Substance Control Act

Section 16 : Additional Information

16.1. List of abbreviation and acronyms used in this MSDS

SDS : Safety Data Sheets

Index N° : atomic number of the element most characteristic of the properties of the substance

CAS No : Chemical Abstracts Service number

EC No : EINECS Number : European Inventory of Existing Commercial Substances

Repr. Cat. 2 : Substance presumed human reproductive toxicant

Acute Oral Cat. 5 : Substance which is of relatively low acute oral toxicity.

GHS : Globally Harmonised System of Classification and Labelling

LD₅₀ : Median Lethal Dose

LC₅₀ : Lethal Concentration, 50%

N.A. : Not Applicable

OSHA : Occupational Safety & Health Administration

Cal OSHA : The State of California Division of Occupational Safety and Health (DOSH)

PEL : Permissible Exposure Limits

ACGIH : American Conference of Governmental Industrial Hygienists

TLV : Threshold Limit Value

Japanese MITI : Japanese Ministry of International Trade and Industry

EC₅₀ : Half maximal effective concentration

UN : United Nations

U.S. EPA TSCA Inventory: Inventory of the chemical substances manufactured or processed in the United States according to Toxic Substances Control Act compiled and published under the authority of the Environmental Protection Agency

Canadian DSL: Canadian Domestic Substances List

16.2. List of relevant hazard statements and precautionary statements used in this MSDS

Hazard Statement

H400: Very toxic to aquatic life

H410: Very toxic to aquatic life with long lasting effects

H411: toxic to aquatic life with long lasting effects

Precautionary Statements

Prevention

P273: Avoid release to the environment

16.3. References

- 1.Regulation (EC) No. 1907/2006 (REACH), amended by 2015/830/EU
- 2.Regulation (EC) No. 1272/2008 (CLP, EU GHS)
- 3.Dangerous Goods Regulations (DGR) for the air transport (IATA)
- 4.International Maritime Dangerous Goods Code (IMDG)

16.4. Disclaimer of Liability

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