

Material Safety Data Sheet Calcium Carbonate

Section 1 - Product Identification

Synonyms : Calcium Carbonate
Molecular Weight : 100.09 g/mol
Chemical Formula : CaCO₃
Company Identification : Tradeasia International Pte. Limited
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Uses advised against:

Section 2 –ingredients Hazards Identification

2.1. Classification of the substance or mixture

GHS-US classification

Skin corrosion/irritation Category 2	H315
Serious eye damage/eye irritation Category 2	B H320
Specific target organ toxicity (single exposure) Category 3	H335

2.2. Label elements

GHS-US labeling

Hazard pictograms (GHS-US)	: GHS07
Signal word (GHS-US)	: Warning
Hazard statements (GHS-US)	: H315 - Causes skin irritation H320 - Causes eye irritation H335 - May cause respiratory irritation Precautionary statements (GHS-US) : P261 - Avoid breathing dust 264 - Wash exposed skin thoroughly after handling P271 - Use only outdoors or in a well-ventilated area P280 - Wear protective gloves, eye protection P302+P352 - IF ON SKIN: Wash with plenty of soap and water P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing P312 - Call a POISON CENTER or doctor/physician if you feel unwell P332+P313 - If skin irritation occurs: Get medical advice/attention P337+P313 - If eye irritation persists: Get medical advice/attention P362+P364 - Take off contaminated clothing and wash it before reuse P403+P233 - Store in a well-ventilated place. Keep container tightly closed P405 - Store locked up P501 - Dispose of contents/container to comply with local, state and federal regulations If inhaled: Remove person to fresh air and keep comfortable for breathing

2.3. Other hazards

Other hazards not contributing to the classification : None under normal conditions.

2.4. Unknown acute toxicity (GHS US)

Not applicable

Section 3 – Composition/information on

3.1. Substances

Chemical Name	EC No/CAS No	Purity, %	GHS-US classification
Calcium Carbonate	471-34-1	>98	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335

3.2. Mixtures

Not applicable

Section 4 – First-Aid Measures

4.1. Description of first aid measures

First-aid measures general

Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

Eye Contact

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

Skin Contact

Wash with plenty of soap and water. Wash contaminated clothing before reuse. If skin irritation occurs: Get medical advice/attention..

Inhalation

Remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician if you feel unwell

Ingestion

Rinse mouth. Do NOT induce vomiting. Obtain emergency medical attention

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

Symptoms/injuries after inhalation : May cause respiratory irritation.
Symptoms/injuries after skin contact : Causes skin irritation.
Symptoms/injuries after eye contact : Causes eye irritation.

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

Obtain medical assistance.

Section 5 – Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media : Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Not flammable.
Reactivity : Upon combustion: CO and CO₂ are formed. Violent to explosive reaction with (some) acids

5.3. Advice for firefighters

Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

Section 6 – Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

6.1.1. For non-emergency personnel

Protective equipment : Safety glasses. Gloves. Dust mask.
Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.
Emergency procedures : Ventilate area.

6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : On land, sweep or shovel into suitable containers. Minimize generation of dust. Store away from other materials.

6.4. Reference to other sections

See Heading 8. Exposure controls and personal protection.

Section 7 – Handling and Storage

7.1. Precautions for safe Handling

Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Avoid breathing dust. Use only outdoors or in a well-ventilated area.

Hygiene measures : Wash exposed skin thoroughly after handling

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions : Keep container tightly closed.

Incompatible products : Strong oxidizers. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

Section 8 – Exposure Controls/Personal Protection

8.1 Control parameters

Calcium Carbonate (471-34-1)

OSHA : OSHA PEL (TWA) (mg/m³) : 5 mg/m³

NIOSH : NIOSH REL (TWA) (mg/m³) : 5 mg/m³

8.2 Exposure controls

Appropriate engineering controls

Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure good ventilation of the work station.

Personal protective equipment

Safety glasses. Gloves. Dust formation: dust mask.

Eye/face protection

Chemical goggles or safety glasses.

Skin protection

Wear protective gloves.

Respiratory protection

Dust formation: dust mask.

Other information

Do not eat, drink or smoke during use.

Section 9 – Physical and Chemical Properties

9.1. Information on basic physical and chemical properties

Physical state	: Solid
Appearance	: White powder or lumps.
Molecular mass	: 100.09 g/mol
Color	: white
Odor	: None

Odor threshold	: No data available
pH	: No data available
Relative evaporation rate (butyl acetate=1)	: No data available
Melting point	: 825 °C
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: 825 °C
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: No data available
Specific gravity / density	: 2.93 g/cm ³
Solubility	: Water: 0.00153 g/100ml
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

9.2 Other safety information

No data available

Section 10 – Stability and Reactivity

10.1 Reactivity

Upon combustion: CO and CO₂ are formed. Violent to explosive reaction with (some) acids.

10.2 Chemical stability

Stable under normal conditions.

10.3 Possibility of hazardous reactions

Reacts violently with acids.

10.4 Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5 Incompatible materials

Strong acids. Strong oxidizers

10.6 Hazardous decomposition products

Carbon monoxide. Carbon dioxide.

Section 11 – Toxicological Information

11.1. Information on toxicological effects

Acute toxicity

Calcium Carbonate (471-34-1)

LD50 oral rat 6450 mg/kg
ATE US (oral) 6450.000 mg/kg body weight

Skin corrosion/irritation	: Causes skin irritation.
Serious eye damage/irritation	: Causes eye irritation.
Respiratory or skin sensitization	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
Specific target organ toxicity – single exposure	: May cause respiratory irritation
Specific target organ toxicity – repeated exposure	: Not classified
Aspiration hazard	: Not classified
Potential Adverse human health effects and symptoms	: Based on available data, the classification criteria are not met.
Symptoms/injuries after inhalation	: May cause respiratory irritation.
Symptoms/injuries after skin contact	: Causes skin irritation.
Symptoms/injuries after eye contact	: Causes eye irritation.

Section 12 – Ecological Information

12.1 Toxicity

No additional information available

12.2 Persistence and degradability

Persistence and degradability : Not established

12.3 Bioaccumulative potential

Bioaccumulative potential : Not established

12.4 Mobility in soil

No additional information available

12.5 Other adverse effects

Other information : Avoid release to the environment.

Section 13 – Disposal Considerations

13.1 Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations. Ecology - waste materials : Avoid release to the environment.

Section 14 – Transport Information

In accordance with DOT

Not regulated for transport

Section 15 – Regulatory Information

15.1. US Federal regulations

Calcium Carbonate (471-34-1)

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes : Immediate (acute) health hazard

All components of this product are listed, or excluded from listing, on the United States Environmental Protection Agency Toxic Substances Control Act (TSCA) inventory. This product or mixture does not contain a toxic chemical or chemicals in excess of the applicable de minimis concentration as specified in 40 CFR §372.38(a) subject to the reporting requirements of section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 and 40 CFR Part 372.

15.2. International regulations

CANADA

Listed on the Canadian DSL (Domestic Substances List)

WHMIS Classification : Class D Division 2 Subdivision B - Toxic material causing other toxic effects

EU-Regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

16 : Additional Information

Other information : None

Full text of H-phrases: see section 16

H315 : Causes skin irritation

H320 : Causes eye irritation

H335 : May cause respiratory irritation

NFPA health hazard : 1 - Materials that, under emergency conditions, can cause significant irritation.

NFPA fire hazard : 0 - Materials that will not burn under typical fire conditions, including intrinsically noncombustible materials such as concrete, stone, and sand.

NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.

HMIS III Rating Health : 1 Slight Hazard - Irritation or minor reversible injury possible

Flammability : 0 Minimal Hazard - Materials that will not burn

Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives Personal Protection : E

E - Safety glasses, Gloves, Dust respirator

