



SAFETY DATA SHEET

According to 29 CFR 1910.1200

CALCIUM CARBONATE

Date of issue: September 01, 2023 Revision date: - Version: 1

SECTION 1.- IDENTIFICATION OF THE SUBSTANCE / MIXTURE AND OF THE COMPANY / UNDERTAKING

1.1 Product identifier

Product form Solid
Substance name Calcium carbonate
CAS No. 471-34-1
Formula CaCO₃
Synonyms Calcium carbonate, carbonic acid, calcium salt, calcite, aragonite, limestone

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture Manufacture of paint, rubber, plastic, adhesives, paper, toothpaste, cement, ceramics, cosmetics, pesticides, insecticides, antibiotics, neutralizing agents, and food additives.

1.3 Details of the supplier of the safety data sheet

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1.4 Emergency telephone number

Emergency number CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

SECTION 2.- HAZARD IDENTIFICATION

2.1 GHS-US classification

Skin Corrosion/Irritation	2	H315
Serious Eye Damage/Eye Irritation	2B	H320
Target Organ Systemic Toxicity - Single Exposure	3	H335

2.2 Label elements

GHS-US labelling

Hazard pictograms (GHS-US)



Signal Word (GHS-US):

Danger

Hazard statement (GHS-US):

H315 Causes skin irritation

H320 Causes eye irritation

H335 May cause respiratory irritation.

Precautionary statements (GHS-US):

P261 Avoid breathing dust/fume/gas/mist/vapors/spray.

P264 Wash your hands thoroughly after handling.

P271 Use only outdoors or in a well-ventilated area.

P280 Wear protective gloves/protective clothing/eye protection/face protection.

P302 + P353: IF ON SKIN: Rinse skin with water/shower.



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P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.

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 skin irritation occurs: Get medical advice/attention.

P363 Wash contaminated clothing before reuse.

P403+P233 Store in a well-ventilated place. Keep container tightly closed.

P501 Dispose of the contents/container following federal, state, and local laws.

No data available

No data available

2.3 Other hazards

2.4 Unknown acute toxicity (GHS-US)

SECCIÓN 3.- COMPOSITION / INFORMATION OF INGREDIENTS

3.1 Substance

Name	Product identifier	%
Calcium carbonate	(CAS No.) 471-34-1	92 - 94

3.2 Mixture

Not applicable

No additional ingredients are present that, to the best of the supplier's knowledge and in applicable concentrations, are classified as hazardous to health or the environment, and therefore they do not need to be reported in this section. Occupational exposure limits, if applicable, are listed in section 8.

SECCIÓN 4.- FIRST AID MEASURE

4.1 Description of first aid measure

First-aid measures general

Check vital signs. Unconscious: keep airways clear and provide breathing assistance. Respiratory arrest: artificial respiration or oxygen. Cardiac arrest: perform CPR. Conscious victim with breathing difficulty: semi-upright position. Victim in shock: lying on back with legs slightly elevated. Vomiting: prevent choking or aspiration. Avoid cooling by covering the victim (without heating). Continue monitoring the victim. Provide psychological support. Keep the victim calm, and avoid physical strain. Depending on the victim's condition: seek medical attention/hospital. Never give anything by mouth to an unconscious person. If feeling unwell, seek medical attention (if possible, show the label).

First-aid measures after eye contact

Rinse eyes immediately with plenty of water, lifting the upper and lower eyelids occasionally. Remove contact lenses if present and easy to do. Continue rinsing for at least 20 minutes. If eye irritation persists, consult a doctor.

First-aid measures after skin contact

Wash contaminated skin with water and soap. Remove contaminated clothing and footwear. Wash contaminated clothing before reuse. In case of skin irritation, consult a doctor.

First-aid measures after inhalation

Transport the victim to fresh air and keep them at rest in a position that facilitates breathing. Call a poison control center or doctor if the person feels unwell.



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First-aid measures after ingestion

Rinse the mouth with water. Do not induce vomiting unless explicitly directed by medical personnel. Seek medical attention.

4.2 Most important

Symptoms/injuries after inhalation	Cough and/or respiratory tract irritation.
Symptoms/injuries after skin contact	Irritation and/or redness
Symptoms/injuries after eye contact	Pain, tearing, and/or redness.
Symptoms/injuries after ingestión	No data available
Chronic symptoms	No data available

4.3 Indications of any immediate medical attention and special treatment needed

No data available

SECCIÓN 5.- FIREFIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media	Use foam, dry chemical powder, carbon dioxide, or sand.
Unsuitable extinguishing media	Do not use a water jet to extinguish a fire.

5.2 Special hazard arising from the substance or mixture

Fire hazard	Non-flammable. The material will not burn.
Explosion hazard	See section 10.
Reactivity	The decomposition products may include the following materials: carbon monoxide (CO), and carbon dioxide (CO ₂). See section 10.

5.3 Advice for firefighters

Precautionary measures fire	No data available.
Firefighting instructions	Use water spray or mist to cool exposed containers. Exercise caution in case of chemical fire. Avoid letting extinguishing water enter the environment.
Protection during firefighting	Do not enter the fire area without proper protective equipment, including respiratory protection.

SECCIÓN 6.- ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment, and emergency procedures

6.1.1 For non-emergency personnel

Protective equipment	Use safety goggles, gloves, and dust masks.
Emergency procedures	No action will be taken that involves excessive risk or involves untrained personnel. Do not allow unnecessary and unprotected personnel to enter. Do not touch or walk on spilled material.
Measures in case of dust release	Prevent dust cloud formation. Dust production: dust suit. In case of dust production: stay upwind. Close doors and windows of facilities.

6.1.2 For emergency responders

Personnel conducting cleanup operations should wear appropriate personal protective equipment. Use safety goggles, gloves, and dust masks. Mark the hazard area. Prevent dust cloud formation. Do not create open flames. For more information, refer to Section 8: "Exposure Controls/Personal Protection".

6.2 Environmental precautions

Avoid spreading the spilled material, and its contact with soil, water bodies, drains, and sewers. Inform relevant authorities if the product has caused environmental contamination (sewers, channels, soil, or air).



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6.3 Methods and material for containment and cleaning up

Method for containment

If possible, confine the spilled material. Store away from other materials. Ventilate and contain the spill to prevent spreading.

In the event of a spill or leak, stop the leak as soon as possible. The recovered product should be transferred to appropriate and compatible containers. Close and label them.

Method for cleaning up

On land, sweep or collect in appropriate containers. Minimize dust generation.

6.4 Reference to other sections

For further information refer to section 8: Exposure-controls/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 the processing area to prevent vapor formation. Do not breathe dust. Use only outdoors or in a well-ventilated area.

Hygiene measures

Comply with legal requirements. Remove contaminated clothing immediately. Clean contaminated clothing. Use corrosion-resistant equipment. Thoroughly clean/dry the facility before use. Do not discharge waste into drains. Avoid raising dust. Keep away from flames/heat. Maintain strict hygiene. Keep the container tightly closed. Regularly measure air concentration. Conduct operations outdoors/with local ventilation or respiratory protection.

Wash hands, forearms, and face thoroughly after handling chemicals, before eating, smoking, and using the restroom, and at the end of the work period. Use appropriate techniques to remove contaminated clothing. Wash contaminated clothing before reuse. Ensure that eye wash stations and safety showers are located near workstations.

Do not eat, drink, or smoke while using this product. Wash hands, forearms, and face thoroughly after handling chemicals, before eating, smoking, and using the restroom, and at the end of the work period.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Store and handle following all current standards and regulations. Keep the container securely closed and properly labeled. Avoid storing and using near sources of ignition and direct sunlight. Keep separate from incompatible substances (see Section 10 of the Safety Data Sheet).

Incompatible products

Incompatible with strong oxidizers and strong acids.

Heat-ignition

No data available

Storage area

Avoid storing and using near sources of ignition and direct sunlight.

Special rules on packaging

Keep the container tightly closed when not in use. Store in a tightly sealed, dry, clean, and properly labeled container. Comply with applicable regulatory requirements.

Packaging materials

No data available

7.3 Specific end use(s)

No additional information is available

SECTION 8.- EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters



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Name	ACGIH TLV	OSHA PEL	NIOSH IDLH
Calcium carbonate 471-34-1	No data available	TWA: 2 ppm (8 hours) TWA: 5 mg/m ³ (8 hours)	No data available

8.2 Exposure controls

Appropriate engineering controls

If the operation generates dust, fumes, gas, vapor, or mist, delineate the process area, and use local ventilation, or other engineering controls to keep worker exposure to airborne contaminants below all recommended limits.

Personal protective equipment

Safety glasses or chemical-resistant goggles, gloves, and a full-face respirator with a dust filter (P100 1M), safety boots.

Material for protective clothing

Rubber.

Hand protection

Chemical-resistant and impermeable gloves that meet the relevant standards should be worn whenever handling chemicals if a risk assessment indicates it is necessary.

Eye protection

Use chemical-resistant goggles or safety glasses.

Skin and body protection

Before using this product, personal protective equipment for the body should be selected based on the task to be performed and the risks involved, and it must be approved by a specialist.

Before handling this product, appropriate footwear should be selected, along with any additional skin protection measures based on the task being performed and the associated risks, all of which should be approved by a specialist. Recommended: Waterproof rubber safety boots.

Respiratory protection

Based on the risk and potential for exposure, select a respirator that meets the appropriate standard or certification. If there is a danger of inhalation, the use of a full-face respirator with a dust filter (P100 3M) may be necessary.

Environmental exposure controls

Avoid release to the environment.

SECTION 9.- PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid
Appearance	Powder
Odor	Odorless
Color	White to light gray
Molecular mass	100.09 g/mol
Odor threshold	No data available
pH	9.5 – 10.5 (20 °C)
pH solution	10 g/l
Relative evaporation rate (butyl acetate = 1)	No data available
Melting/Freezing point	520 °C
Boiling point	825 °C
Flash point	No data available
Self-ignition temperature	No data available
Decomposition temperature	825 °C
Flammability (solid, gas)	No data available
Vapor pressure	0 hPa (20 °C)



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Relative vapor density at 20 °C	No data available
Relative density	2.93 (20 °C)
Solubility	No data available
Log Pow	No data available
Log Kow	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 information

No additional information is available

SECTION 10.- STABILITY AND REACTIVITY

10.1 Reactivity	No data available
10.2 Chemical stability	None under recommended storage and handling conditions.
10.3 Possibility of hazardous reactions	Reacts violently upon contact 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 dioxide, and carbon monoxide.

SECTION 11.- TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Likely routes of exposure	Skin and eye contact, inhalation, and ingestion.
Acute toxicity	No data available
Skin corrosión/irritation	Irritation and/or redness.
Serious eye damage/irritation	Pain, tearing, and/or redness.
Respiratory or skin sensitization	Cough and/or respiratory tract irritation.
Germ cell mutagenicity	Not classified.
Carcinogenicity	Not classified.
Reproductive toxicity	Not classified.
Specific target toxicity (single exposure)	Irritation of the respiratory tract
Specific target toxicity (repeat exposure)	No data available
Aspiration hazard	No data available

Name	LD ₅₀ oral	LD ₅₀ dermal	LC ₅₀ inhalation
Calcium carbonate	6450 mg/kg (rat)	-	-

SECTION 12.- ECOLOGICAL INFORMATION

12.1 Toxicity



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Ecology – General No data available
Ecology – Air No data available
Ecology – Water No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Other adverse effects

Other information Avoid release to the environment.

SECCIÓN 13.- INFORMACIÓN RELATIVA A LA ELIMINACIÓN DE LOS PRODUCTOS

13.1 Waste treatment methods

Waste treatment methods Dispose of safely following local/national regulations.
Waste disposal recommendations Avoid releasing into the environment.

SECTION 14.- TRANSPORT INFORMATION

14.1 UN Number Unregulated
14.2 UN proper shipping name Unregulated
14.3 Class of hazards in transportation Unregulated
14.4 Packaging group Unregulated
14.3 Additional information
Other information No supplementary information is available.
Overland transport No additional information is available.
Transport by sea No additional information is available.
Air transport No additional information is available.

SECTION 15.- REGULATORY INFORMATION

International inventories

TSCA All components are listed or exempt.

TSCA – Toxic Substances Control Act Inventory Section 8(b).

DSL/NDSL - Domestic Substance List/Non-Domestic Substance List.

US Federal Regulations: Not listed in the Toxic Substances Control Act Inventory

SARA 311/312 Categories.

Acute Health Hazard	No	Chronic Health Hazard	No	Fire Hazard	No
Sudden Hazardous Pressure Release	No	Reactive Hazard	No		

Clean Water Act. No data available

CERCLA. No data available

National standards. No data available

SECTION 16.- OTHER INFORMATION



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NFPA	NFPA health Hazard	1	NFPA fire Hazard	0	NFPA instability Hazard	0	NFPA Special hazard	-
HMIS III	Health	1	Flammability	0	Physical	0	Personal protection	E

Safety goggles, gloves, and a respirator for dust.

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End of Safety Data Sheet