

Product Name	Calcium carbonate
--------------	-------------------

Section 1: IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1. Product identification:

Product Description: Calcium carbonate

Synonyms: Precipitated chalk, Aragonite, Agricultural limestone

CAS-No: 471-34-1

EC-No.: 207-439-9

Molecular Formula: CaCO₃

REACH Registration No: Not available

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

Recommended Use: Laboratory chemicals, Manufacture of substances, Used as pharma Excipient.

1.3. Details of the supplier of the safety data sheet:

- Company** **Finar Limited**
184-186/P, Chacharwadi Vasna,
Sarkhej-Bavla Highway,
Ta.: Sanand, Dist.: Ahmedabad-382110, Gujarat, India.
Web: www.finarchemicals.com
- E-Mail Address** safety.finar@actylis.com; info.finar@actylis.com

1.4. Emergency Telephone Number:

- For Emergency contact on: +91 - 2717 - 616 717

Product Name	Calcium carbonate
---------------------	--------------------------

SECTION 2: HAZARDS IDENTIFICATION

2.1. Classification of the substance or mixture:

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.2. Label Elements:

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

2.3. Other Hazards:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1. Substances: Calcium Carbonate

3.2. Mixtures:

Component	CAS-No	EC-No.	Weight %
Calcium Carbonate	471-34-1	207-439-9	>95

SECTION 4: FIRST AID MEASURES

4.1. Description of first aid measures:

- **General advice**

Show this safety data sheet to the doctor in attendance.

- **If inhaled**

Remove to fresh air. Get medical attention immediately if symptoms occur.

If not breathing, give artificial respiration.

- **If case of skin contact**

Wash off immediately with plenty of water for at least 15 minutes. Get medical attention immediately if symptoms occur.

- **In case of eye contact**

Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.

Get medical attention.

- **If swallowed**

Do NOT induce vomiting. Get medical attention.

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

Product Name	Calcium carbonate
---------------------	--------------------------

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

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

No data available

SECTION 5: FIREFIGHTING MEASURES

5.1. Extinguishing media:

Suitable Extinguishing Media- Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

Unsuitable Extinguishing Media- For this substance/mixture no limitations of extinguishing agents are given.

5.2. Special hazards arising from the substance or mixture:

Calcium oxide

Not combustible.

Ambient fire may liberate hazardous vapours.

5.3. Advice for firefighters:

In the event of fire, wear self-contained breathing apparatus.

5.4 Further Information:

None

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions, protective equipment and emergency procedures:

Advice for non-emergency personnel: Avoid inhalation of dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2. Environmental precautions:

No special precautionary measures necessary.

6.3. Methods and material for containment and cleaning up:

Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly.

Clean up affected area. Avoid generation of dusts.

6.4. Reference to other sections:

For disposal see Sections 13.

SECTION 7: HANDLING AND STORAGE

Product Name	<u>Calcium carbonate</u>
---------------------	---------------------------------

7.1. Precautions for safe handling:

Wear personal protective equipment/face protection. Ensure adequate ventilation.
Avoid contact with skin, eyes or clothing. Avoid ingestion and inhalation. Avoid dust formation.

7.2. Conditions for safe storage, including any incompatibilities:

Keep containers tightly closed in a dry and well-ventilated place.

7.3. Specific end use(s):

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1. Control parameters:

Ingredients with workplace control parameters

8.2. Exposure Controls:

Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

Personal Protective Equipment:

Eye & Face Protection-

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin Protection -

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D- 36124 Eichenzell, Internet: www.kcl.de).

Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves (e.g. KCL GmbH, D-36124 Eichenzell, Internet: www.kcl.de).

Splash contact

Material: Nitrile rubber

Product Name	Calcium carbonate
---------------------	--------------------------

Minimum layer thickness: 0.11 mm

Break through time: 480 min

Material tested: KCL 741 Dermatril® L

Respiratory Protection-

Required when dusts are generated.

Our recommendations on filtering respiratory protection are based on the following standards: DIN EN 143, DIN 14387 and other accompanying standards relating to the used respiratory protection system.

Environmental Exposure Controls-

No special precautionary measures necessary.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1. Information on basic physical and chemical properties:

- **Appearance:** White
- **Physical State:** Solid
- **Odor:** Odorless
- **Odor Threshold:** No data available
- **pH:** 7-9 @ 20° C
- **Melting Point:** 825 °C
- **Critical Temperature:** No data available
- **Vapor Pressure:** No data available
- **Relative Density:** 2.93 g/cm³ at 25 °C
- **Viscosity Dynamic:** No data available
- **Viscosity Kinematic:** No data available
- **Lower Explosive Limit:** No data available
- **Upper Explosive Limit:** No data available
- **Decomposition Temperature:** 825 °C
- **Volatility:** No data available
- **Density:** 3.13 g/cm³
- **Water/Oil Dist. Co eff.:** No data available
- **Ionicity (in Water):** No data available
- **Boiling Point/Range:** 800 °C
- **Flash Point:** No data available
- **Specific Gravity:** No data available

Product Name	<u>Calcium carbonate</u>
---------------------	---------------------------------

- **Auto-Ignition Temperature:** not auto-flammable
- **Water Solubility:** 0.017 g/l at 20 °C - OECD test guideline (Slightly soluble)

9.2. Other information:

- **Molecular Weight:** 100.09 g/mol
- **Molecular Formula:** CaCO₃

SECTION 10: STABILITY AND REACTIVITY

10.1. Reactivity:

No data available

10.2. Chemical stability:

The product is chemically stable under standard ambient conditions (room temperature).

10.3. Possibility of hazardous reactions:

No data available

10.4. Conditions to avoid:

Incompatible products. Excess heat. Avoid dust formation.

Exposure to moisture may affect product quality.

No information available

10.5. Incompatible materials:

Strong oxidizing agents, Acids, Magnesium, Aluminium.

10.6. Hazardous decomposition products:

Other decomposition products - No data available

Hazardous decomposition products formed under fire conditions. - Calcium oxide

In the event of fire: see section 5.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on toxicological effects

Acute toxicity

LD50 Oral - Rat - female - > 2.000 mg/kg

(OECD Test Guideline 420)

LC50 Inhalation - Rat - male and female - 4 h - > 3 mg/l

(OECD Test Guideline 403)

LD50 Dermal - Rat - male and female - > 2.000 mg/kg

(OECD Test Guideline 402)

Product Name	Calcium carbonate
---------------------	--------------------------

Skin corrosion/irritation

Skin - reconstructed human epidermis (RhE)

Result: No skin irritation - 15 min

(OECD Test Guideline 439)

Serious Eye damage/eye irritation

Eyes - Bovine cornea

Result: No eye irritation - 4 h

(OECD Test Guideline 437)

Respiratory or Skin sensitization

Local lymph node assay (LLNA) – Mouse

Result: negative

(OECD Test Guideline 429)

Germ cell mutagenicity

Ames test

Escherichia coli/Salmonella typhimurium

Result: negative

Mutagenicity (mammal cell test): chromosome aberration.

Human lymphocytes

Result: negative

In vitro mammalian cell gene mutation test

mouse lymphoma cells

Result: negative

Carcinogenicity

IARC: No ingredient of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information:

Repeated dose toxicity - Rat - male and female - Oral - 48 Days - NOAEL (No observed adverse effect level) - 1.000 mg/kg

Product Name	<u>Calcium carbonate</u>
---------------------	---------------------------------

RTECS: FF9335000

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: ECOLOGICAL INFORMATION

12.1. Toxicity:

Toxicity to fish:

Semi-static test LC50 - Oncorhynchus mykiss (rainbow trout) - > 100 mg/l - 96 h
(OECD Test Guideline 203)

Toxicity daphnia and other aquatic invertebrates:

Static test EC50 - Daphnia magna (Water flea) - > 100 mg/l - 48 h (OECD Test Guideline 202)

Toxicity to algae

Static test ErC50 - Desmodesmus subspicatus (green algae) – 14 mg/l - 72 h (OECD Test Guideline 201)

Toxicity to bacteria

Static test EC50 - activated sludge - > 1.000 mg/l - 3 h (OECD Test Guideline 209)

12.2 Persistence and degradability:

Biodegradability aerobic - Exposure time 28 d

Result: 90 % - Readily biodegradable. (OECD Test Guideline 301B)

12.3 Bioaccumulate potential:

Bioaccumulation is unlikely.

12.4 Mobility in soil:

No data available

12.5 Results of PBT and vPvB assessment:

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects:

No ecological problems are to be expected when the product is handled and used with due care and attention.

Product Name	Calcium carbonate
--------------	-------------------

SECTION 13: Disposal considerations

13.1 Waste treatment methods:

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. Chemical waste generators must also consult local, regional, and national hazardous waste regulations to ensure complete and accurate classification.

SECTION 14: Transport information

	Land transport (ADR/RID)	Air transport (IATA)	Sea transport (IMDG)
14.1 UN number	-		
14.2 Proper shipping name	Not dangerous goods		
14.3 Class	-		
14.4 Packing group	-		
14.5 Environmentally hazardous	No	No	No
14.6 Special precautions for user	No data available		
14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	Not Relevant		

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture:

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.2 Chemical safety assessment:

For this product, a chemical safety assessment was not carried out.

SECTION 16: Other information

Training advice: -

Provide adequate information, instruction and training for operators.

References: Not available

Product Name	<u>Calcium carbonate</u>
---------------------	---------------------------------

Created: 20/12/2021

Updated On: 29/09/2023

Disclaimer:

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall Finar Limited be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if Finar Limited has been advised of the possibility of such damages.