

Material safety data sheet
According to EU Regulation 1907/2006 in the current version
Calcium carbonate

1. Identification of the substance/mixture and company

Trade name: Calcium carbonate
Chemical formula: CaCO_3
Abrasive, bulking agent, opacifying agent
INCI Calcium carbonate
CAS No. : 471-34-1
EINECS/EC No. : -
REACH pre-registration No. : 01-2119486795-18-XXXX
Utilization: Raw material for cosmetic or professional use
Supplier company identification: Elemental SRL, Piața Cazărmii no.15, 410188-Oradea, jud.Bihor, Romania
Tel/Fax: +40259-436.755, www.elemental.eu
Emergency: RO: număr național pentru cazuri de urgență: 021 3183606 Institutul de Sănătate Publică București.
International emergency number: +49 180 2273-112

2. Hazards Identification

2.1 Classification of the substance or mixture
This substance is not classified as dangerous according to European Union legislation.

2.2 Label elements
Labelling (REGULATION (EC) No 1272/2008)
Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

2.3 Other hazards
None known.

3. Declaration of ingredients

3.1 Substance

Formula	CaCO_3 CCaO_3 (Hill)
EC-No.	207-439-9
Molar mass	100,09 g/mol
For the full text of the H-Statements mentioned in this Section, see Section 16.	
Remarks	No disclosure requirement according to Regulation (EC) No. 1907/2006.

3.2 Mixture
Not applicable

4. First aid measures

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4.1 Description of first aid measures

After inhalation: fresh air.

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water.

After eye contact: rinse out with plenty of water.

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

4.2 Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

4.3 Indication of any immediate medical attention and special treatment needed

No information available.

5. Fire fighting measures

5.1 Extinguishing media

Suitable extinguishing media: 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

Not combustible.

5.3 Advice for firefighters

none

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.

Advice for emergency responders: Protective equipment see section 8.

6.2 Environmental precautions

No special precautionary measures necessary.

6.3 Methods and materials 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

Indications about waste treatment see section 13.

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7. Handling and storage

7.1 Precautions for safe handling

Advice on safe handling: Observe label precautions.

Hygiene measures: Change contaminated clothing. Wash hands after working with substance.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions: Tightly closed. Dry.

Recommended storage temperature see product label.

7.3 Specific end use(s)

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

8. Exposure controls / personal protection

8.1 Control parameters

Derived No Effect Level (DNEL)

Worker DNEL, longterm	Systemic effects	inhalation	10 mg/m ³
Consumer DNEL, longterm	Systemic effects	inhalation	10 mg/m ³
Consumer DNEL, longterm	Systemic effects	oral	6,1 mg/kg Body weight
Consumer DNEL, acute	Systemic effects	oral	6,1 mg/kg Body weight

Predicted No Effect Concentration (PNEC)

PNEC Sewage treatment plant	100 mg/l
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8.2 Exposure controls

Engineering measures: Technical measures and appropriate working operations should be given priority over the use of personal protective equipment. See section 7.1.

Individual protection measures: Protective clothing needs to be selected specifically for the workplace, depending on concentrations and quantities of the hazardous substances handled. The chemical resistance of the protective equipment should be enquired at the respective supplier.

Eye/face protection: Safety glasses

Hand protection, full contact: Glove material: Nitrile rubber
Glove thickness: 0,11 mm
splash contact: Glove material: Nitrile rubber
Glove thickness: 0,11 mm
Break through time: > 480 min

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The protective gloves to be used must comply with the specifications of EC Directive 89/686/EEC and the related standard EN374, for example KCL 741 Dermatril® L (full contact), KCL 741 Dermatril® L (splash contact).

The breakthrough times stated above were determined by KCL in laboratory tests acc. to EN374 with samples of the recommended glove types.

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).

Respiratory protection: required when dusts are generated. Recommended Filter type: Filter P 2 (acc. to DIN 3181) for solid and liquid particles of harmful substances.

The entrepreneur has to ensure that maintenance, cleaning and testing of respiratory protective devices are carried out according to the instructions of the producer. These measures have to be properly documented.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

Form	solid
Colour	light grey
Odour	odourless
Odour Threshold	Not applicable
pH	9,5 – 10,5 at 100 g/l 20 °C (slurry)
Melting point	825 °C (decomposition)
Boiling point/boiling range	Not applicable
Flash point	does not flash
Evaporation rate	No information available.
Flammability (solid, gas)	The product is not flammable.
Lower explosion limit	Not applicable
Upper explosion limit	Not applicable
Vapour pressure	No information available.
Relative vapour density	No information available.
Density	No information available.
Relative density	No information available.
Water solubility	0,014 g/l at 20 °C
Partition coefficient: n- octanol/water	No information available.
Auto-ignition temperature	No information available.

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Decomposition temperature	ca. 825 °C
Viscosity, dynamic	No information available.
Explosive properties	Not classified as explosive.
Oxidizing properties	none

9.2 Other data

Ignition temperature	not combustible
Bulk density	ca.400 - 1.400 kg/m ³

10. Stability and reactivity

10.1 Reactivity

See section 10.3

10.2 Chemical stability

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

10.3 Possibility of hazardous reactions

Generates dangerous gases or fumes in contact with: acids, carbon dioxide, ammonium compounds, acidic salts

Exothermic reaction with: Fluorine

10.4 Conditions to avoid

Strong heating (decomposition).

10.5 Incompatible materials

no information available

10.6 Hazardous decomposition products

no information available

11. Toxicological information

11.1 Information on toxicological effects

Acute oral toxicity

LD50 Rat: 6.450 mg/kg (IUCLID)

Acute inhalation toxicity

Rat: > 3 mg/l; 4 h ; aerosol OECD Test Guideline 403

Acute dermal toxicity

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LD50 Rat: > 2.000 mg/kg OECD Test Guideline 402

Skin irritation

Rabbit Result: No irritation OECD Test Guideline 404

Eye irritation

Rabbit Result: No eye irritation OECD Test Guideline 405

Sensitisation

In animal experiments: Result: negative (Lit.)

Germ cell mutagenicity

Genotoxicity in vitro

Ames test Result: negative (Lit.)

Mutagenicity (mammal cell test): chromosome aberration. Result: negative Method: OECD Test Guideline 473

Carcinogenicity

This information is not available.

Reproductive toxicity

This information is not available.

Teratogenicity

This information is not available.

Specific target organ toxicity - single exposure

This information is not available.

Specific target organ toxicity - repeated exposure

This information is not available.

Repeated dose toxicity

Rat male and female Oral NOAEL: 1.000 mg/kg OECD Test Guideline 422

Aspiration hazard

This information is not available.

11.2 Further information

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

Handle in accordance with good industrial hygiene and safety practice.

12. Ecological information

12.1 Toxicity

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Toxicity to algae

Growth inhibition ErC50 *Desmodesmus subspicatus* (green algae): > 14 mg/l; 72 h

OECD Test Guideline 201

Toxicity to bacteria

Respiration inhibition EC50 activated sludge: > 1.000 mg/l; 3 h

OECD Test Guideline 209

Respiration inhibition NOEC activated sludge: 1.000 mg/l; 3 h

OECD Test Guideline 209

12.2 Persistence and degradability

Biodegradability

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

12.3 Bioaccumulative potential

No information available.

12.4 Mobility in soil

No information available.

12.5 Results of PBT and vPvB assessment

Substance does not meet the criteria for PBT or vPvB according to Regulation (EC) No 1907/2006, Annex XIII.

12.6 Other adverse effects

Additional ecological information

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

13. Disposal considerations

Waste treatment methods

See www.retrologistik.com for processes regarding the return of chemicals and containers, or contact us there if you have further questions.

14. Transport information

14.1 - 14.6 Land transport (ADR/RID)

Not classified as dangerous in the meaning of transport regulations.

Inland waterway transport (ADN)

Not relevant

14.1 - 14.6 Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

14.1 - 14.6 Sea transport (IMDG)

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Not classified as dangerous in the meaning of transport regulations.

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code
Not relevant

15. Regulatory information

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

EU regulations

Major Accident Hazard Legislation	96/82/EC Directive 96/82/EC does not apply
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	not regulated
Regulation (EC) No 850/2004 of the European Parliament and of the Council of 29 April 2004 on persistent organic pollutants and amending Directive 79/117/EEC	not regulated
Regulation (EC) No 689/2008 concerning the export and import of dangerous chemicals	not regulated
Substances of very high concern (SVHC)	This product does not contain substances of very high concern according to Regulation (EC) No 1907/2006 (REACH), Article 57 above the respective regulatory concentration limit of $\geq 0.1\%$ (w/w).

National legislation
Storage class 10 - 13

15.2 Chemical Safety Assessment
For this product a chemical safety assessment was not carried out.

16. Additional information

Training advice
Provide adequate information, instruction and training for operators.

Labelling (67/548/EEC or 1999/45/EC)
The product does not need to be labelled in accordance with EC directives or respective national laws.

Regional representation
This information is given on the authorised Safety Data Sheet for your country.

16.1 Abbreviations

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ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

CLP: Classification, Labeling, Packaging.

DNEL: Derived No Effect Level.

EINECS: European Inventory of Existing Commercial Chemical Substances.

GHS: Globally Harmonized System of Classification and Labeling of Chemicals.

IATA: International Air Transport Association.

IATA-DGR: Dangerous Goods Regulation by the "International Air Transport Association" (IATA).

ICAO: International Civil Aviation Organization.

ICAO-TI: Technical Instructions by the "International Civil Aviation Organization" (ICAO).

IMDG: International Maritime Code for Dangerous Goods.

INCI: International Nomenclature of Cosmetic Ingredients.

LTE: Long-term exposure.

PNEC: Predicted No Effect Concentration.

RID: Regulation Concerning the International Transport of Dangerous Goods by Rail.

STE: Short-term exposure.

STEL: Short Term Exposure limit.

STOT: Specific Target Organ Toxicity.

Disclaimer:

This material safety data sheet does not constitute a guarantee of the properties of the product and is not a contractual legal report. The information is given in good faith on the basis of our best knowledge of the product at the indicated time. However, we cannot accept responsibility or liability for any consequences arising from its use, no warranty for correctness and completeness is given. We caution the users against the incurred possible risks when the product is used at other ends than the use for which it was initially planned. It is the user's responsibility during handling, storage and product use to consult the main regulatory texts in force regarding workers and environment protection.