



**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 <sub>3</sub> 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:	<b>Elemental SRL</b> , 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 <sub>3</sub> CCaO <sub>3</sub> (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**

**4.1 Description of first aid measures**



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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.

**7. Handling and storage**

**7.1 Precautions for safe handling**



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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 <sup>3</sup>
Consumer DNEL, longterm	Systemic effects	inhalation	10 mg/m <sup>3</sup>
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

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.



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



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**9.2 Other data**

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

**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**

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



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**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**

**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



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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](http://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)**

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**



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**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**

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).





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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.