PRODUCT SAFETY DATA SHEET for $CaCO_3$

Prepared in accordance with Annex II of the REACH Regulation EC 1907/2006, as amended

Current version: 2.3/EN_CZ | Superseded version: 2.2/EN

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

1.1 Product identifier

Substance name	Calcium carbonate
Synonyms	Calcite, Chalk, Lime, Limestone
Trade name	Limestone, very fine (natural)
Chemical name	Calcium carbonate
Chemical formula	$CaCO_3$
CAS:	1317-65-3
EINECS:	215-279-6
Molar mass:	100.1 g/mol
REACH Registration number:	Exempted from registration (based on Annex IV and V of the REACH regulation)

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

Relevant identified uses	Production of building materials (e.g., mortar, cement, concrete). Production of coating and asphalt mixtures. Rubber, chemical, pharmaceutical, paper, and glass industries. Desulfurization in thermal power plants and incinerators. Agricultural industry (animal feed, fertilizer, soil pH adjustment).
Uses advised against	There are no uses advised against.

1.3 Details of the supplier of the safety data sheet

Manufacturer/Supplier	Calmit, spol. s r. o.
Street address	Gaštanová 15, 811 04 Bratislava
Country	Slovakia
Business ID	361 72 162
Phone N°	+421 2 5465 4298
Fax N°	+421 2 5477 7439
E-mail	office@calmit.sk

1.4 Emergency telephone number

European Emergency N°	112
Toxikologické informační středisko (TIS) N°	+420 224 919 293 nebo +420 224 915 402

Comments – Laické i lékařské dotazy na AKUTNÍ INTOXIKACE lidí a zvířat se řeší výhradně na přímých telefonních linkách TIS po 24 hod denně.

SECTION 2: HAZARDS IDENTIFICATION

2.1 Classification of the substance or mixture

2.1.1 Classification according to Regulation (EC) No 1272/2008 (CLP)

The substance is not classified as hazardous according to Regulation (EC) No. 1272/2008 (CLP)

2.2 Label elements

Labelling according to Regulation (EC) No 1272/2008 (CLP)

Hazard pictogram: No relevant pictograms.

Signal word: No relevant signal word.

Hazard statements: No relevant hazard statements.

Precautionary statements:

Precautionary statements - prevention	
P102	Keep out of reach of children
P261	Avoid breathing dust/fume/gas/mist/vapours/spray
P280	Wear protective gloves / protective clothing / ye protection / face protection
Precautionary statements - response	
P302+P352	IF ON SKIN: Wash with plenty of soap and water.
P304+P340	IF INHALED: Remove victim to fresh air and keep at rest in a position 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.
P314	Get medical advice/attention if you feel unwell.
Precautionary statements - disposable	
P501	Dispose of contents/container in accordance with local/regional/national/international regulations

2.3 Other hazards

The substance does NOT meet the criteria for PBT or vPvB substance according to Regulation (EC) No 1907/2006, Annes XIII.

The substance does not have endocrine-disrupting properties in accordance with the criteria set out in Commission Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605.

Substance is not on the candidate list of SVHC substances.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Substances

Main constituent

Name	Calcium carbonate
CAS	1317-65-3
EINECS:	215-279-6
Content in % by weight	95 - 100 %

Impurities

No impurities relevant for classification and labelling.

SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice

Take off contaminated clothing. If you experience any health issues or have any doubts, seek medical attention. Show this safety data sheet to the doctor in attendance. No known delayed effects.

Following inhalation

Leave the exposed workplace as quickly as possible. Further inhalation can be prevented by breathing through a cloth (work clothes, handkerchief). Breathe fresh air. Rinse the mouth. Seek medical attention if necessary.

Following skin contact

Carefully remove coarse dust from the skin mechanically, remove contaminated clothing, and rinse the affected skin thoroughly with clean water and soap for at least 5 minutes. Treat the skin with a suitable regenerative cream. Seek medical attention if necessary.

Following eye contact

Rinse with plenty of water for at least 10 minutes (with eyelids open). Remove contact lenses, if easy to do so. Carefully remove solid particles from the eye so as not to injure it. Seek medical attention immediately.

Following ingestion

DO NOT INDUCE VOMITING. Rinse your mouth with water and then drink plenty of water. If you have any doubts or persistent problems, seek medical advice.

Self-protection of the first aider

Avoid inhalation, contact with skin, eyes, and clothing. Ensure adequate ventilation or use appropriate respiratory protection. Use appropriate protective equipment (see Section 8).

4.2 Most important symptoms and effects, both acute and delayed

Calcium carbonate is not acutely toxic via the oral, dermal, or inhalation route. No acute or delayed symptoms or effects are expected. The substance is not classified as hazardous.

Following inhalation - It manifests itself as coughing, and breathing difficulties.

Following skin contact - It manifests itself in roughening and drying of the skin.

Following eye contact - It manifests itself as redness, pain, and impaired vision.

Following ingestion - Symptoms include pain and cramps in the abdominal cavity.

4.3 Indication of any immediate medical attention and special treatment needed

Follow the advises given in section 4.1

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media

Suitable extinguishing media: The product is not flammable.

Unsuitable extinguishing media: Unknown.

5.2 Special hazards arising from the substance or mixture

Dust respiration.

5.3 Advice for firefighters

Avoid generation of dust. Use self-contained breathing apparatus (SCBA) with chemical resistant gloves. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal precautions, protective equipment and emergency procedures

6.1.1 For non-emergency personnel

Ensure adequate ventilation. Keep dust levels to a minimum. Keep unprotected persons away. Avoid contact with skin, eyes, and clothing - wear suitable protective equipment (see Section 8). Avoid inhalation of dust - ensure that sufficient ventilation or suitable respiratory protective equipment is used, wear suitable protective equipment (see Section 8).

6.1.2 For emergency responders

Keep dust levels to a minimum. Ensure adequate ventilation. Keep unprotected persons away. Avoid contact with skin, eyes, and clothing - wear suitable protective equipment (see section 8). Avoid inhalation of dust - ensure that sufficient ventilation or suitable respiratory protective equipment is used, wear suitable protective equipment (see section 8).

6.2 Environmental precautions

Contain the spillage. Cover area, if possible, to avoid unnecessary dust hazard. Avoid uncontrolled spills to watercourses and drains. Any large spillage into watercourses must be alerted to the Environment Agency or other regulatory body.

6.3 Methods and material for containment and cleaning up

In all cases avoid dust formation. Keep the material dry if possible. Pick up the product mechanically in a dry way. Use vacuum suction unit or shovel to transfer it into appropriate bags.

6.4 Reference to other sections

For more information on exposure controls/personal protection and disposal considerations, please check Section 8 and 13, respectively.

SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling

7.1.1 Protective measures

Avoid contact with skin and eyes. Wear protective equipment (refer to section 8 of this safety data sheet). Do not wear contact lenses when handling this product. It is also advisable to have an individual pocket eyewash. Prevent dust generation. Enclose dust sources, use exhaust ventilation (dust collector at handling points). Handling systems should preferably be enclosed. When handling bags usual precautions should be paid to the risks outlined in the Council Directive 90/269/EEC.

7.1.2 Advice on general occupational hygiene

Avoid inhalation, ingestion, and contact with skin and eyes. Follow general occupational hygiene principles such as good personal and work practices (e.g., proper regular cleaning), no eating, drinking, or smoking in the workplace. Shower and change clothes at the end of the work shift. Do not wear contaminated clothing at home.

7.2 Conditions for safe storage, including any incompatibilities

The substance must be stored in a dry environment, separate from acids and ammonia compounds. Prevent contamination or other deterioration of the material. Keep out of reach of children.

7.3 Specific end use(s)

There is no information available for specific end uses.

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Control parameters

DNEL, PNEC not determined, material has no hazardous properties.

Table 1- Control parameters for $CaCO_3$.

Substance	Parameter	Limit value [mg/m³]	Legal basis
Vdechovatelná frakce aerosolu $CaCO_3$	PEL*	10	361/2007 Sb. ***
Vdechovatelná frakce aerosolu $CaCO_3$	NPK-P**	-	361/2007 Sb. ***

* přípustný expoziční limit - celosměnový časově vážený průměr koncentrací plynů, par nebo aerosolů v pracovním ovzduší, jimž může být podle současného stavu znalostí exponován zaměstnanec v osmihodinové nebo kratší směně týdenní pracovní doby, aniž by u něho došlo i při celoživotní pracovní expozici k poškození zdraví, k ohrožení jeho pracovní schopnosti a výkonnosti.

** nejvyšší přípustná koncentrace - koncentrace chemické látky, které mohou být zaměstnanci exponováni nepřetržitě po krátkou dobu, aniž by pociťovali dráždění očí nebo dýchacích cest nebo bylo ohroženo jejich zdraví a spolehlivost výkonu práce. Při hodnocení pracovního ovzduší lze porovnávat s nejvyšší přípustnou koncentrací časově vážený průměr koncentrace této látky měřené po dobu nejvýše 15 minut, během osmihodinové směny nejvýše 4 s odstupem nejméně jedné hodiny.

*** NAŘÍZENÍ VLÁDY ze dne 12. prosince 2007, kterým se stanoví podmínky ochrany zdraví při práci Vláda nařizuje podle § 21 písm. a) zákona č. 309/2006 Sb., kterým se upravují další požadavky bezpečnosti a ochrany zdraví při práci v pracovněprávních vztazích a o zajištění bezpečnosti a ochrany zdraví při činnosti nebo poskytování služeb mimo pracovněprávní vztahy (zákon o zajištění dalších podmínek bezpečnosti a ochrany zdraví při práci), a k provedení zákona č. 262/2006 Sb., zákoník práce, ve znění pozdějších předpisů.

8.2 Exposure controls

To control potential exposures, generation of dust should be avoided. Appropriate protective equipment is recommended. Eye protection equipment (e.g. goggles or visors) must be worn, unless potential contact with the eye can be excluded by the nature and type of the application (i.e. closed process). Additionally, face protection, protective clothing and safety shoes are required to be worn as appropriate.

8.2.1 Appropriate engineering controls

If user operations generate dust, use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne dust levels below recommended exposure limits.

8.2.2 Personal protective equipment

8.2.2.1 Eye and face protection

Do not wear contact lenses. Wear appropriate eye protection to prevent eye contact. For powders wear tight fitting goggles with side shields, or wide-vision full goggles. It is also advisable to have individual pocket eyewash.

8.2.2.2 Skin protection

Hand protection: Wear protective gloves made of:

Material Nitrile rubber

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

Other skin protection: Wear appropriate personal protective clothing to avoid skin contact. Recommended: Standard working clothes fully covering skin, full length trousers, long sleeved overalls, with close fittings at openings and shoes resistant to caustics and avoiding dust penetration are required be worn.

8.2.2.3 Respiratory protection

It is recommended to use local ventilation to keep the concentration below the established threshold values. A suitable particle filter mask is recommended (at least FFP2), depending on the expected exposure levels.

8.2.2.4 Thermal hazards

The substance does not pose a thermal hazard when stored and handled correctly, therefore no special measures are required (see Section 7).

8.2.3 Environmental exposure controls

Avoid releasing the substance to the environment. The exhaust from the ventilation systems shall be filtered prior to discharge to the atmosphere. Contain any spillage. Keep away from drains, surface and ground water. Any large spillage into watercourses must be alerted to the regulatory authority responsible for the environmental protection or other relevant regulatory body.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties

Physical state	Solid
Colour	Depends on the mineralogy and composition of the deposit – from white, beige to pinkish or gray
Odour	Odourless
Melting point	Data not available
Boiling point	Data not available
Flammability	Non-flammable
Explosion limits	Data not available
Flash point	Data not available
Autoignition temperature	Data not available
Decomposition temperature	825 °C [$CaCO_3$ -> $CaO + CO_2$]
pH	8.5-10.5 (10 % solution at 20 °C)
Viscosity	Data not available
Solubility in water	Nearly insoluble (10 mg/L at 20 °C, 15 mg/L at 25 °C)
Partition coefficient	Data not available
Vapour pressure	Data not available
Relative density	2.4-2.9 g/cm^3 at 20 °C)
Relative vapour density	Data not available
Evaporation rate	Data not available
Oxidising properties	None (based on the chemical structure, the substance does not contain a surplus oxygen or any structural groups known to be correlated with a tendency to react exothermally with combustible material)
Particle characteristics	Grinding fineness: passing through a 2 mm sieve: 100 %, passing through a 0.125 mm sieve: 85 – 100 %, passing through a 0.063 mm sieve: 70 – 100 %

9.2 Other information

Data not available.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Under normal conditions of use and storage (in dry conditions), calcium carbonate is stable.

10.2 Chemical stability

Under normal conditions of use and storage (in dry conditions), calcium carbonate is stable.

10.3 Possibility of hazardous reactions

Data not available.

10.4 Conditions to avoid

Minimise exposure to air and moisture to avoid degradation.

10.5 Incompatible materials

Acids and ammonia compounds.

10.6 Hazardous decomposition products

When heated above 825 °C, calcium carbonate decomposes to form calcium oxide (CaO) and carbon dioxide (CO_2), [$CaCO_3$ -> CaO + CO_2].

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

11.1.1 Acute toxicity

Oral	LD_{50} 6450 mg/kg bw (OECD 425, rat)
Dermal	Data not available.
Inhalation	Data not available.

Based on available data, the classification criteria are not met.

11.1.2 Skin corrosion/irritation

Limestone may cause mechanical irritation but does not require classification as skin irritant.

11.1.3 Serious eye damage/irritation

Limestone may cause mechanical irritation but does not require classification for serious eye damage or irritation hazards.

11.1.4 Respiratory or skin sensitisation

No data available. Classification for sensitisation is not warranted.

11.1.5 Germ cell mutagenicity

No indications of human germ cell mutagenicity exist.

Classification for mutagenicity is not warranted.

11.1.6 Carcinogenicity

No examples are known. Classification based on carcinogenicity is not justified.

11.1.7 Reproductive toxicity

Calcium (administered as Ca-carbonate) is not toxic to reproduction (experimental result, mouse). No indications of human reproductive toxicity exist. Classification due to reproductive toxicity is not justified.

11.1.8 STOT-single exposure

Limestone may cause mechanical irritation but does not require classification for STOT SE.

11.1.9 STOT-repeated exposure

Limestone may cause mechanical irritation but does not require classification for STOT RE.

11.1.10 Aspiration hazard

Calcium carbonate is not known to present an aspiration hazard.

11.2 Information on other hazards

This substance does not have endocrine disrupting properties with respect to humans.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

12.1.1 Acute/Prolonged toxicity to fish

Not applicable, natural substance.

12.1.2 Acute/Prolonged toxicity to aquatic invertebrates

Not applicable, natural substance.

12.1.3 Acute/Prolonged toxicity to aquatic plants

Not applicable, natural substance.

12.1.4 Toxicity to micro-organisms e.g. bacteria

Not applicable, natural substance.

12.1.5 Chronic toxicity to aquatic organisms

Not applicable, natural substance.

12.1.6 Toxicity to soil dwelling organisms

Not applicable, natural substance.

12.1.7 Toxicity to terrestrial plants

Not applicable, natural substance.

12.1.8 General effect

It is used for water and soil treatment and for desulfurization (pH increase at high concentrations).

12.2. Persistence and degradability

Not relevant for inorganic substances.

12.3 Bioaccumulative potential

Not relevant for inorganic substances.

12.4 Mobility in soil

Calcium carbonate, which is sparingly soluble, presents a low mobility in most soils.

12.5 Results of PBT and vPvB assessment

Not relevant for inorganic substances.

12.6 Endocrine disrupting properties

The substance does not disrupt the endocrine system.

12.7 Other adverse effects

No other adverse effects are identified.

SECTION 13: DISPOSAL CONSIDERATIONS

13.1 Waste treatment methods

Disposal of calcium carbonate should be in accordance with local and national legislation. Processing, use or contamination of this product may change the waste management options. Consult the appropriate local waste disposal expert about waste disposal. Waste should not be disposed of by release to sewers.

After usage, empty the packing completely. Packaging should not be reused for other purposes. Handle contaminated packages in the same way as the substance itself. Dispose of container and unused contents in accordance with local and national legislation.
Waste catalogue number: 15 01 01 (paper and cardboard).

SECTION 14: TRANSPORT INFORMATION

Calcium carbonate is not classified as hazardous for transport in sense of these regulations: ADR (Road), RID (Rail), IMDG / GGVSea (Sea), ICAO-TI / IATA-DGR (Air).

14.1 UN number or ID number

Not dangerous in sense of this transport regulation

14.2 UN proper shipping name

Not assigned

14.3 Transport hazard class(es)

None

14.4 Packing group

Not assigned

14.5 Environmental hazards

None

14.6 Special precautions for user

Avoid any release of dust during transportation, by using air-tight tanks. For packaged products on pallets, stack a maximum of 2 pallets on top of each other. Transport in closed containers that are upright and securely fastened. Ensure that persons transporting the product are familiar with the procedures to follow in case of emergency, accident, or leakage.

14.7 Maritime transport in bulk according to IMO instruments

Not regulated

SECTION 15: REGULATORY INFORMATION

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

Authorisations	Not required
Restrictions on use	None
Other EU regulations	Calcium carbonate is not a SEVESO substance, not an ozone depleting substance and not a persistent organic pollutant.
National regulations	Zákon č. 350/2011 Sb., o chemických látkách a chemických směsích a o změně některých zákonů (chemický zákon) vč. prováděcích předpisů v platném znění. Zákon č. 258/2000 Sb., o ochraně veřejného zdraví a o změně některých souvisejících zákonů, ve znění pozdějších předpisů Zákon č. 262/2006 Sb., zákoník práce, ve znění pozdějších předpisů Zákon č. 201/2012 Sb., o ochraně ovzduší v platném znění. Vyhláška č. 415/2012 Sb., o přípustné úrovni znečišťování a jejím zjišťování a o provedení některých dalších ustanovení zákona o ochraně ovzduší v platném znění. Zákon č. 254/2001 Sb., o vodách a o změně některých zákonů (vodní zákon), ve znění pozdějších předpisů Zákon č. 185/2001 Sb., o odpadech a změně některých dalších zákonů (zákon o odpadech), ve znění pozdějších předpisů včetně prováděcích předpisů. Zákon č. 477/2001 Sb., o obalech a o změně některých zákonů (zákon o obalech), ve znění pozdějších předpisů Vyhláška č. 381/2001 Sb., kterou se stanoví Katalog odpadů, Seznam nebezpečných odpadů a seznamy odpadu a států pro účely vývozu, dovozu a tranzitu odpadů a postup při udělování souhlasu k vývozu, dovozu a tranzitu odpadů (Katalog odpadů), ve znění pozdějších předpisů Nařízení vlády ČR č. 361/2007 Sb., kterým se stanoví podmínky ochrany zdraví zaměstnanců při práci, ve znění pozdějších předpisů Vyhláška č. 432/2003 Sb., kterou se stanoví podmínky pro zařazování prací do kategorií, limitní hodnoty ukazatelů biologických expozičních testů, podmínky odběru biologického materiálu pro provádění biologických expozičních testů a náležitosti hlášení prací s azbestem a biologickými činiteli v platném znění.

15.2 Chemical safety assessment

A chemical safety assessment has been carried out for this substance. The substance does not have any hazardous properties and therefore no chemical safety report has been prepared, and no exposure scenarios have been developed.

SECTION 16: OTHER INFORMATION

16.1 Abbreviations

ADR	The European Agreement Concerning the International Carriage of Dangerous Goods by Road
CAS	Chemical abstract services
CLP	Directive 1272/2008/EC (Classification, Labelling and Packaging)
EC_{10}	10 % effective concentration
EC_{50}	median effective concentration
EINECS	European Inventory of Existing Commercial Chemical Substances
IATA	International Air Transport Association
ICAO	International Civil Aviation Organization
ICSC	International Chemical Safety Card
IMDG	International Maritime Dangerous Goods
IMO	International Maritime Organization
LC_{10}	10 % lethal concentration
LC_{50}	median lethal concentration
LD_{50}	median lethal dose
NOEC	No Observed Effect Concentration
OEL	occupational exposure limit
PBT	persistent, bioaccumulative, toxic chemical
PNEC	predicted no-effect concentration
RID	Regulation concerning the International Carriage of Dangerous Goods by Rail
SCF	Scientific Committee on Food
SCOEL	Scientific Committee on Occupational Exposure Limits
SDS	safety data sheet
STEL	short-term exposure limit
TWA	time weighted average
UN	United Nations
vPvB	very persistent, very bioaccumulative chemical

16.2 Revision

General revision – improved clarity and specificity of the text.

Update header.

Specific revision – changes made to the following sections, so the SDS fulfils the requirements set out in the Annex II of regulation (EC) No 1907/2006 (REACH):

1.4 Updated emergency number, relevant for the specific country.

3.1 Updated concentration of the main constituent.

4.2 Detailed description of symptoms for each vector of contact.

8.1 Updated exposure limits and their legal reference.

13.1 Waste catalogue numbers added

15.1 Updated National regulations.

Disclaimer

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II. Its contents are intended as a guide to the appropriate precautionary handling of the material. It is the responsibility of recipients of this SDS to ensure that the information contained therein is properly read and understood by all people who may use, handle, dispose or in any way come in contact with the product. Information and instructions provided in this SDS are based on the current state of scientific and technical knowledge at the date of issue indicated. It should not be construed as any guarantee of technical performance, suitability for particular applications, and does not establish a legally valid contractual relationship. This version of the SDS supersedes all previous versions.

ANNEX

Exposure scenarios

End of the Safety Data Sheet