



VÁPENKA VITOUŁ s.r.o.

SAFETY DATA SHEET

According to Directive 91/155/EEC modified by Directive 2001/58/EC

Product name

CALCIUM CARBONATE

Strana 1/6

Date:
25.5.2004

Revision date:
01.10.2006

1. IDENTIFICATION OF THE SUBSTANCE AND OF THE COMPANY

1.1. Identification of the substance

Substance name **Calcium Carbonate**

Synonyms Limestone / Ground calcium carbonate (GCC) / Chalk / Calcite / Marble

This list may not be exhaustive.

Chemical name and formula **Calcium carbonate – CaCO₃**

Trade Name Calcitec, Limestone, Limestone filler, Limestone aggregate

CAS n° 1317-65-3

EINECS n° 215-279-6

Molecular weight 100,08

1.2. Material use

- Construction industry

- Chemical industry : neutralisation, pH adjustment. - Fillers : paper, paints, carpeting, rubber, plastic

- Metallurgy and glass manufacture - Agriculture : Aglime

- Environmental protection : flue gas treatment, waster water treatment, drinking water treatment : pH adjustment, decarbonatation, softening.

- Food and feed products (human and animal nutrition, pH adjuster), pharmaceuticals and cosmetics

Please note that this list may not be exhaustive.

1.3. Company identification

VÁPENKA VITOUŁ s.r.o.

Mladeč č.p. 132, 783 21 Chudobín

Tel +420 585 347 142

Fax +420 585 347 145

1.4. Emergency telephone

European Emergency N° **112**

National centre for Prevention & Treatment of Intoxications N°

2. COMPOSITION / INFORMATION ON INGREDIENTS

2.1. Composition / information on ingredients

Calcium carbonate, small quantities of magnesium carbonate, silicon oxide, aluminium oxide, iron oxide and trace elements. Product is obtained from natural minerals; purity level may vary according to their origins.

2.2. Chemical characterisation

2.2.1. : CAS N° 1317-65-3

2.2.2. : Chemical name **Calcium carbonate**

2.2.5. : EINECS N° 215-279-6



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3. HAZARD IDENTIFICATION

3.1. Indication of hazard

None according to Directive 67/548/EEC.

3.2. Human health

Risk phrases According to present knowledge, substance is not dangerous.

4. FIRST-AID MEASURES

4.1. Inhalation

Transfer the person in an aerated area.

4.2. Skin



Wash skin with water or take a shower.

4.3. Eyes



No special measure.
Wash with copious quantities of water and seek medical attention if necessary.

4.4. Ingestion

Wash mouth with water.

4.5. General advise

No known delayed effect. No special instructions for rescuers.

5. FIRE-FIGHTING MEASURES

5.1. Flammability

The substance is not flammable and non-combustible.

5.2. Extinguishing media

The product does not burn. Use dry power, foam or CO₂ type of fire extinguishers to fight the surrounding fire.



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5.3. Combustion products

Above 600°C, calcium carbonate decomposes into calcium oxide which releases heat when in contact with water, with the risk to fire surrounding flammable substances.

6. ACCIDENTAL RELEASE MEASURES

6.1. Personal precautions

Keep dust levels to a minimum, and ensure that sufficient ventilation or suitable respiratory protective equipment is used (Section 8).

6.2. Environmental precautions

No special requirement

6.3. Methods for cleaning up

Avoid dry sweeping and use water spraying or ventilated vacuum system to prevent dust formation.

7. HANDLING AND STORAGE

7.1. Handling

Precautions for safe handling
Avoid dust formation.
Provide appropriate exhaust ventilation at places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment (see section 8). When handling bagged material, usual attention should be taken for bearing heavy loads.

7.2. Storage

Precautions for safe storage Store in dry areas. Do not store with acids.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

8.1. Exposure limit values

8.1.1. CAS N° / EINECS N° 1317-65-3 / 215-279-6

8.1.2. Chemical name Calcium carbonate

8.1.3. Occupational exposure standard (OES) **10 mg/m³**

8.2. Exposure controls

8.2.1. Occupational exposure controls Handling systems should preferably be enclosed or suitable ventilation installed to maintain atmospheric dust below the OES, if not wear suitable protective equipment air stream-helmet for heavy exposure.

8.2.1.1. Respiratory protection



Use approved dust respirators to EN 149 category FFP2, or air stream-helmet for heavy exposure.



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8.2.1.2. Hand protection		Use approved nitrile impregnated gloves having CE marks.
8.2.1.3. Eye protection		For pulverised products : tight fitting EN 166 standard goggles with side shields, or wide vision full goggles. Do not wear contact lenses when handling this product.
8.2.1.4. Skin protection		Clothing fully covering skin, full length pants, long sleeved overalls, with close fittings at openings. Footwear resistant to dust penetration.
8.2.1.5. General safety and hygiene measure		Wear clean, dry personal protective equipment. If heavily exposed daily, employees must shower.
8.2.2. Environmental exposure		Controls All ventilation systems should be filtered before discharge to atmosphere.

9. PHYSICAL AND CHEMICAL PROPERTIES

9.1. General information	
	9.1.1. Appearance bulk, powder, lump, pellets, spray dried, or slurry Colour <i>from white to brown/grey</i> 9.1.2. Odour Slight earthy odour
9.2. Important health, safety and environmental information	
	pH 8 - 9 at saturated solution at 25°C Solubility in water 13 – 16 mg/l at 20°C
9.3. Other information	
	Melting point Decomposition > 600°C Boiling point Decomposition > 600°C Specific gravity 2,71 g/cm ³ at 20°C for calcite 2,94 g/cm ³ at 20°C for aragonite Bulk density 900 - 1500 kg/m ³ at 20°C Vapour pressure Non volatile Partition coefficient Not applicable Flash point Not applicable Flammability Not flammable Explosive properties Not flammable

10. STABILITY AND REACTIVITY

10.1. Conditions to avoid	
	Decomposes at temperature higher than 600°C to form calcium oxide and CO ₂ .
10.2. Materials to avoid	
	Calcium carbonate reacts with acids to form calcium salts under the formation of carbon dioxide (CO ₂).



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11. TOXICOLOGICAL INFORMATION

11.1. Acute effect

Eye contact Mild irritant (mechanical irritation).
Inhalation Inhalation of dust causes discomfort to the upper respiratory tract.
Ingestion
LD50 oral, rat = > 5000 mg/kg
High ingestion might irritate the gastrointestinal tract.
Skin contact Not irritant.

11.2. Long term exposure

Eye contact Mild irritant (mechanical irritation).
Inhalation Inhalation of dust causes discomfort to the upper respiratory tract.
Skin contact Not irritant.

12. ECOLOGICAL INFORMATION

Ecotoxicological information Toxicity threshold is above hydrosolubility of calcium carbonate

13. DISPOSAL CONSIDERATIONS

13.1. Waste from residues / unused products

Are not considered dangerous substances further to European Commission decision of 16.01.2001 modifying decision 2000/532/CE concerning the list of waste products (code 101304)

14. TRANSPORT INFORMATION

14.1. Transport consideration

14.1.1. Classification Not classified as hazardous for transport.
14.1.2. ADR (Road) Not subject to identification
14.1.3. RID (Rail) Not subject to identification
14.1.4. IMDG / GGVSea (Sea) Not subject to identification
14.1.5. IATA-DGR / ICTAO-TI(Air) Not subject to identification

14.2. Special precaution

Avoid any release of dust during transportation, by using tight tanks for powders and covered trucks for pebbles.

15. REGULATORY INFORMATION

15.1. Labelling according to EEC-directives

15.1.1. Symbol and classification of the substance	None
15.1.2. Restriction of marketing and employment	None
15.1.3. National regulations	None



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16. OTHER INFORMATION

16.1. Risk phrases

None

16.2. Safety phrases

None

16.3. Further information

This safety data sheet supplements the technical use instructions without replacing them. The information contained therein is based on the state of our knowledge regarding the product, at the mentioned date. They are provided in good faith. The users' attention is however drawn to eventual risks when the product is used for other purposes than those it is designed for. It does not exempt the user from knowing and applying all texts regulating his activity. It will be his sole responsibility to take all necessary precautions when using the product.

16.4. Guidance and references

Data sheet prepared in accordance with Directive 91/155/EEC modified by Directives 93/112/EEC, 99/45/EC and 2001/58/EC.

References:

IUCLID Dataset –2000

The Merck Index (Ed. Merck & Co, Rahway, USA)

16.5. Revision

Revision date: 01/10/2006

End of the safety data sheet