

Safety Data Sheet Calcium Carbonate

Trade Name: Calcium Carbonate
Grades: All grades
Original Issue Date: September 2003 (as MSDS 44)
This Issue: November 2022

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product Identifier: Calcium Carbonate
Product Description: Calcium Carbonate is a naturally occurring substance, comprising more than 4% of the earth's crust. It is produced by the sedimentation of the shells of small fossilised shells of snails, shellfish and coral over millions of years.
EINECS: 207-439-9
CAS: 471-34-1
REACH Registration Number: not registered (see below)

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

Product use: Construction material, food additive, plastic coating, paper industry as a filler, animal food additive and stone cleaning abrasive.

The substance does not meet the criteria for classification as dangerous according to EC1272/2008 and is not PBT or vPvB. Therefore exposure assessment, risk characterisation and exposure scenarios for the identified uses through the life cycle is not required (REACH Regulations 1907/006, Annex 1 and ECHA Guidance on information requirements and chemical safety assessment part A)

1.3 Details of supplier of the safety data sheet

Hodge Clemco Ltd, Orgreave Drive, Sheffield S13 9NR, U.K.

Email address of person: sales@hodgeclemco.co.uk

Emergency telephone number of the supplier

Telephone number: +44(0)114 254 8811
Hours of operation: Mon – Fri 08.30 – 1700

SECTION 2: Hazards Identification

2.1 Classification of substance or mixture

Classification according to Regulation (EC) No. 1272/2008 (which replaces Directive 67/548/EC(DSD))

Classification: Not classified. Calcium carbonate does not meet the criteria for classification in accordance with the regulations EC1272/2008. No special conditions are therefore needed. Risk management measures due to the potential occurrence of hazardous dusts during use as an abrasive may be needed.

2.2 Label Elements

Labelling according to Regulation (EC) No 1272/2008 (which replaces Directive 67/548/EC(DSD))
None

2.3 Other hazards

The substance does not meet the criteria for a PBT or vPvB substance
Use of this material may generate dust so risk management measures may be needed

SECTION 3: Composition/information on ingredients

Calcium Carbonate is a naturally occurring substance, mined from quarries. Chemical composition is:

CO ₃)	Composition w/w
Calcium Carbonate (CaCO ₃)	99.68%
Silica Oxide (SiO ₂)	0.3%
Aluminium Oxide (Al ₂ O ₃)	0.03%
Iron Oxide (Fe ₂ O ₃)	0.02%
Silicon Dioxide (SiO ₂)	0.17%
Magnesium Oxide (MgO)	0.018%
Moisture (as H ₂ O)	0.05%
Free Silica	<1.0%

SECTION 4: First Aid Measures

4.1 Description of First Aid Measures

- Inhalation:* Remove to fresh air. Get medical attention if symptoms occur.
- Skin:* Substance is not a skin irritant and not a skin sensitiser. Wash with water and soap. Remove contaminated clothing and footwear, Get medical advice if symptoms occur.
- Eye:* Substance is not an eye irritant. Use general measures if eye irritations occur. Do not rub eyes. Immediately wash with plenty of water. Check for and remove any contact lenses. If irritation persists, get medical attention.
- Ingestion:* No danger known, wash mouth out if appropriate. Do not induce vomiting. Give water to drink.
- Advice to physician:* No specific advice. Treat according to symptoms present.

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

The product may cause temporary mechanical irritation to the eyes, nose, throat and lungs.

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

Notes for the doctor. Treat symptomatically.

SECTION 5: Fire Fighting Measures

5.1 Extinguishing media

The product is non-combustible. Use an extinguishing agent appropriate to the surrounding materials.

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products: None

5.3 Advice for fire-fighters

Wear self-contained breathing apparatus and protective clothing

SECTION 6: Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation. Avoid breathing dust. Use appropriate personal protective equipment.

6.2 Environmental precautions

Make sure spills can be contained. Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and clean-up

Ventilate the area thoroughly. Vacuum or sweep up material and place in a suitable closed container for re-cycling or disposal.

6.4 References to other sections

Section 1 for emergency contact information
Section 8 for information on personal protective equipment
Section 13 for Waste Disposal

SECTION 7: Handling and Storage

7.1 Precautions for safe handling

Calcium carbonate is not classified and no protective measures are needed for safe handling. Prevent formation of dust. Use only in well ventilated areas. Wear personal protective clothing.

Wash hands and face before breaks and after work.

7.2 Conditions for safe storage including any incompatibilities

Keep dry. No other special requirements.

7.3 Specific end uses

Blast cleaning may fracture the product and generate dust. Ventilate work area in vicinity of operator

SECTION 8: Exposure Controls/Personal Protection

8.1 Appropriate Engineering Controls

Use process enclosures, local exhaust ventilation or other engineering controls to keep exposure to below any recommended or statutory limits. For storage and handling, general ventilation is adequate.

8.2 Personal Protective Equipment

Blasting operatives should wear a CE marked or HSE approved blasting helmet. Ancillary workers should use a P2 dust respirator and safety goggles. Operatives should always wear appropriate gauntlets. Operatives should wear heavy-duty coveralls or a purpose designed blasters' suit.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

<i>Appearance:</i>	Solid, angular particles
<i>Colour;</i>	White, off-white
<i>Odour</i>	None
<i>Odour threshold:</i>	Not applicable
<i>Melting point:</i>	Carbon dioxide is evolved at temperatures above 400°C
<i>Relative Density (ref water at 20°C)</i>	2.7 -2.9 kg/dm ³
<i>Bulk density:</i>	0.53kg/dm ³
<i>Solubility:</i>	Low solubility
<i>Hardness</i>	3 Moh

9.2 Other information

Not applicable

SECTION 10: Stability and reactivity

10.1 Reactivity

Not applicable. See Section 9.

10.2 Chemical stability

Contact with acids produces carbon dioxide.

10.3 Possibility of hazardous reactions

No hazardous reactions known

10.4 Conditions to avoid

Avoid dust formations and contact with acids

10.5 Incompatible materials

Strong acids

10.6 Hazardous decomposition products

The material does not decompose.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Immediate acute effects: Not applicable

Delayed (sub chronic and chronic) effects Not applicable

Other data: Dust in concentrations above the max. recommended concentrations may cause irritation of eyes and throat. If inhaled over a prolonged period of time, may constitute a health hazard.

SECTION 12 Ecological information

Not hazardous

SECTION 13: Disposal considerations

Discard as non-hazardous inert, solid waste according to applicable local regulations. Special disposal procedures may apply to spent abrasive which may contain other materials derived from the substrate being cleaned.

SECTION 14: Transport information

14.1 UN number

Not applicable

14.2 UN proper shipping name

Not applicable

14.3 Transport hazardous classes

Not applicable

14.4 Packing group

Not applicable

14.5 Environmental hazards

Not applicable

14.6 Special precautions for user

Not applicable

14.7 Transport in bulk according to Annex II of MARPOL and the IBC code

Not applicable

SECTION 15: Regulatory Information

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

The product is not subject to identification regulations under EC Directives

15.2 Chemical Safety Assessment

A Chemical Safety Assessment for this substance has been carried out

SECTION 16: Other information

Abbreviations and acronyms:

CAS	- Chemical Abstracts Service number
CLP	- Classification, Labelling and Packaging Regulation (Regulation (EC) No. 1272/2008)
DNEL	- Derived No-effect Level
EC	- European Commission
EC No.	- European Chemical number (replaces EINECS, ELINCS or NLP)
ECHA	- European Chemicals Agency
EINECS	- European Inventory of Existing Commercial Chemical Substances
ELINCS	- European List of Notified Chemical Substances
EWC	- European Waste Catalogue
NOEC	- No Observable Effect Concentration
OEL	- Occupation Exposure Limit
PBT	-persistent, bi-accumulative and toxic
PNEC	-Predicted No Effect Concentration
STEL	-Short Term Exposure Limit
vPvB	-very persistent and very bio accumulative

Key literature references and sources of data

Workplace Exposure Limits – 2005, HSE EH40/2005
Workplace Exposure Limits – Supplement 2007, HSE EH40/2005
EC Commission Directive 2001/58/EC
EC Commission Regulation 1907/2006 and amendment EC 987/2008

Legislation:

The Waste (England & Wales) Regulations 2011
The Waste (Miscellaneous Provisions) (Wales) Regulations 2011
The Waste (Scotland) Regulations 2011
The Waste (Northern Ireland) Regulations 2011
The List of Wastes Regulations 2005

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