



Material Safety Data Sheet CALCIUM CARBONATE

In compliance with Regulation (EC)453/2010
Date of issue: 29/10/2009 Revision date: 21/01/2015

1) Identification of substance/preparation and of the company undertaking

1.1) Product Identifier

Product form: Substance

Product name: Calcium Carbonate

Synonyms: Whiting, Chalk, Calcarb, Calmotte, GCC Fine powder

EC no: 215-279-6

CAS No.: 1317-65-3

REACH registration No.: Exempted in accordance with Annex V.7

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

1.2.1) Relevant identified uses

Use of the substance/preparation:

Substance used as such, in formulation or in formulation of products such as:

- Agriculture
- Glass
- Ceramics
- Metal treatment
- Paints
- Printing inks
- Plastics
- Paper
- Fillers

1.2.2) Uses advised against

- None

Full text of use descriptors: see section 16.

1.3. Details of the supplier of the safety data sheet

Inoxia Ltd

Unit 45.7 Dunsfold Park,

Cranleigh,

GU6 8TB,

United Kingdom

2) Hazard Identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No. 1272/2008 [CLP]

Physical and chemical hazards: Not classified

Human health: Not classified

Environment: Not classified

Full text of H-phrases: see section 16

Classification according to Directive 67/548/EEC or 1999/45/EC

Not classified

Full text of R-phrases: see section 16

Adverse physicochemical, human health and environmental effects

None known

2.2) Label elements**Labelling according to Regulation (EC) No. 1272/2008 (CLP)**

None

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH, annex XIII.

3) Composition/Information on ingredients**3.1) Substances**

Chemical name	CAS No.	EC-No.	%	Classification (67/548/EEC)	Classification (1272/2008/EC)
Calcium Carbonate (Limestone)	1317-65-3	215-279-6	85-100	N/A	N/A

Full text of R-, H- and EUH-phrases: see section 16

REACH Registration numbers: Both Chrome iron oxide and Respirable Crystalline Silica (Quartz) are Exempt.

4) First Aid Measures**4.1) Description of first aid measures****Inhalation:** Move the exposed person to fresh air at once. Get medical attention if any discomfort continues.**Ingestion:** Rinse mouth thoroughly. Get medical attention if any discomfort continues.**Skin contact:** Wash skin with soap and water. Get medical attention if irritation persists after washing.**Eye contact:** Make sure to remove any contact lenses from the eyes before rinsing. Rinse eye with water immediately. Get medical attention if any discomfort continues.**4.2) Most important symptoms and effects, both acute and delayed**

Inhalation: Chronic exposure to crystalline silica may result in lung fibrosis (silicosis). Principal symptoms of silicosis are coughing and breathlessness. Crystalline silica is classified as carcinogenic to humans (IARC Group 1).

Ingestion: May cause indigestion

Skin contact: No specific symptoms noted.

Eye contact: May cause acute redness of the eyes

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

Treat symptomatically.

5) Firefighting Measures

5.1) Extinguishing media

Suitable extinguishing media: Use an extinguishing agent suitable for the surrounding fire

Unsuitable extinguishing media: None

5.2) Special hazards arising from the substance or mixture

Fire hazard: Not flammable.

Explosion hazard: No explosive properties known.

Reactivity: No data available

5.3) Advice for firefighters

Protection during firefighting: No specific firefighting procedures given. Wear self-contained breathing apparatus

6) Accidental Release Measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures: Keep public away from danger area. See section 8.2.

6.1.1. For non-emergency personnel

Wear Personal Protective Equipment (PPE) as detailed in Section 8 of the SDS

6.1.2. For emergency responders

No additional information available

6.2. Environmental precautions

Prevent entry to sewers and soil. Notify authorities if product enters sewers or public waters.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Sweep or shovel spills into appropriate container for disposal. Avoid dust production.

6.4. Reference to other sections

See section 8 and 13 for more information.

7) Handling and Storage

7.1) Precautions for safe handling

Precautions for safe handling: Do not breathe dust. Wash hands plentifully and other exposed areas with water after handling. Remove contaminated clothing and shoes. Wash clothing before re-using.

Packaging's: Even those that have been emptied, will retain product residue. Always obey safety warnings and handle empty packages as if they were full. Avoid all contact with this substance.

Hygiene measures: When using do not eat, drink or smoke. Wash hands and other exposed areas with mild soap and water before eat, drink or smoke and when leaving work. Remove contaminated clothing and shoes.

7.2) Conditions for safe storage, including any incompatibilities

Storage conditions: Store in dry, cool, well-ventilated area. Keep away from food, drink and animal feeding stuffs. Do not store near acids.

7.3) Specific end use(s)

The identified uses for this product are detailed in section 1.2

8) Exposure Controls/Personal Protection

8.1) Control parameters

Chemical Name	TWA	Basis	CAS No.
Calcium Carbonate (Limestone)	10 mg/m ³ (Inhalable dust) 4mg/m ³ (Respirable dust)	GB EH40	1317-65-3

Exposure Limits:

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust).

Ingredients comments:

Dust can contain respirable silica. Prolonged and/or massive inhalation of respirable silica dust may cause lung fibrosis. Commonly referred to as silicosis. Principal symptoms of silicosis are cough and breathlessness. Occupational exposure to respirable dust should be monitored and controlled. The product should be handled using methods and techniques that minimise or eliminate dust generation. The product contains less than 1% w/w RCS (respirable crystalline silica) as determine by the SWERF method. The respirable crystalline silica content can be measured using the "Size-Weighted Respirable Fraction – SWERF" method. All details about the SWERF method are available at www.crystallinesilica.eu

8.2) Exposure controls

Appropriate engineering controls: Use as far as possible in a closed system. Provide a regular control of the atmosphere. Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Local exhaust and general ventilation must be adequate to meet exposure standards. Please refer to the annex (exposure scenarios).

Hand protection: Use gloves resistant to chemical products corresponding to EN 374:3. Take advice to gloves' manufacturer.

Eye protection: Wear safety glasses with side shields according EN 166.

Skin and body protection: Wear closed protective clothing.

Respiratory protection: Use respiratory protection mask according to EN 140 or EN 405 with filter type P3 according to EN 143:2000 or FFP3 according to EN 149:2001.

Environmental exposure controls: Avoid release to the environment.

9) Physical/Chemical Properties

Physical state	Explosive limits
Colour	Solid Powder.
Odour	White
Odour threshold	Characteristic.
pH	Not applicable
Relative evaporation rate (butylacetate=1)	8.5 to 9.5 (100g/L solution at 200C)
Melting point	No data available
Freezing point	>800 °C
Boiling point	No data available
Flash point	Decomposes below the melting point
Self ignition temperature	Does not flash
Thermal Decomposition	Not applicable
Flammability (solid, gas)	>6000C
Vapour pressure	Not flammable
Relative vapour density at 20 °C	Not applicable.
Specific gravity	No data available
Density	2.6 – 2.8g/cm ³ at 200C
Water Solubility	No data available
Log Pow	0.014g/l at 200C , 1.013hPa & 0.018g/l
Log Kow	Not applicable
Viscosity, kinematic	Not applicable
Viscosity, dynamic	Not applicable
Explosive properties	Not explosive.
Oxidising properties	Not applicable

9.2) Other Information

No data available

10) Stability/Reactivity

10.1) Reactivity

No data available

10.2) Chemical stability

Stable under normal conditions of handling and storage.

10.3) Possibility of hazardous reactions

Reacts with acids. It forms carbon dioxide (CO₂). This displaces the oxygen in the air in closed spaces (danger of suffocation).

10.4) Conditions to avoid

No data available.

10.5) Incompatible materials

Acids

10.6) Hazardous decomposition productsMay evolve carbon dioxide (CO₂).**11) Toxicological Information****11.1) Information on toxicological effects**

<ol style="list-style-type: none"> 1. Acute toxicity 2. Skin corrosion/irritation 3. Serious eye damage/irritation 4. Respiratory or skin sensitisation 5. Germ cell mutagenicity 6. Carcinogenicity 7. Reproductive toxicity 8. STOT – single exposure 9. STOT – repeated exposure 10. Aspiration hazard 	<ol style="list-style-type: none"> 1) This product is expected to be of low toxicity. Under normal conditions of use, adverse health effects are not anticipated. However, ingestion of large quantities may result in nausea, vomiting and gastrointestinal irritation. LD50 (Oral) >5,000mg.kg (rat). 2) Not classified as a skin irritant. Contact may result in mechanical irritation, redness and rash. 3) Not classified as an eye irritant. However, this product may cause mechanical eye irritation with redness and lacrimation. 4) This product is not known to be a skin or respiratory sensitiser. 5) Insufficient data available to classify as a mutagen. 6) Insufficient data available to classify as a carcinogen. 7) Insufficient data available to classify as a reproductive toxin. 8) No data available. 9) No data available. 10) This product is a solid and aspiration hazards are not expected to occur.
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12) Ecological Information**12.1) Toxicity****Toxicity to Algae:** *Desmodesmus subspicatus* (green algae):- 72 h EC₅₀ >200mg/l**Toxicity to Daphnia and other aquatic invertebrates:** *Daphnia magna* (water flea):- 48 h EC₅₀ >1,000mg/l**Toxicity to Fish:** *Oncorhynchus mykiss* (rainbow trout):- 96 h LC₅₀ >10,000mg/l**12.2) Persistence and degradability**

not applicable

12.3) Bioaccumulative potential

Partition coefficient: n-octanol/water: not applicable

12.4) Mobility in soil

No data available.

12.5) Results of PBT and vPvB assessment

This substance does not meet the PBT or vPvB criteria of REACH, annex XIII.

12.6) Other adverse effects

In solid state these minerals are a major part of the rocks of the earth's surface. They are dissolved in a natural state and are an indispensable part of the natural waters. These minerals are not biodegradable. Negative effects on the environment should therefore be excluded. Restrictions may be indicated that concentrated suspensions of these minerals in natural waters may have an unfavourable effect on water organisms (disturbance of the micro flora and fauna in the sediment and subsequent detriment to the existence of higher water organisms)

13) Disposal Considerations

13.1) Waste treatment methods

Waste treatment methods: Dispose of this material and residues in accordance with local authority requirements.

Additional information: Empty packaging can have residues or dusts and are subject to proper waste disposal, as above.

Ecology - waste materials: See the European waste catalogue.

14) Transport Information

14.1. UN number

The product is not covered by international regulation on transport of dangerous goods (IMDG, IATA, ADR/RID).

14.2. UN proper shipping name

Not classified for transportation.

14.3. Transport hazard class(es)

Not classified for transportation.

14.4. Packing group

Not classified for transportation.

14.5. Environmental hazards

Other information: No environmental hazards known with this product.

14.6. Special precautions for user

Not classified for transportation.

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable.

15) Regulatory Information

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

National regulatory information:

No information available.

International legislation/requirements:

No information available.

EU Legislation:

Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18th December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), establishing a European Chemicals Agency, amending Directive 1999/45/EC and repealing Council Regulation (EEC) No 793/93 and Commission Regulations (EC) No 1488/94 as well as Council Directive 76/769/EEC and Commission Directives 91/155/EEC, 93/67/EEC, 93/105/EC and 2000/21/EC, including amendments. Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16th December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006 with amendments.

16) Other Information

Full text of R-phrases referred to under sections 2 and 3

Not applicable

Full text of R-phrases referred to under sections 2 and 3

Not applicable

Abbreviations and acronyms:

ADN: European Agreement concerning international carriage of Dangerous goods by Inland waterways

ADR: European Agreement concerning international carriage of Dangerous goods by Road

AF: Assessment factor

BCF: Bioconcentration factor

Bw: Body weight

CAS: Chemical Abstracts Service

CLP: Classification, labelling, packaging

CSR: Chemical Safety Report

DMEL: Derived maximum effect level

DNEL: Derivative No effect Level

EC: European Community

ELV: Emission limit values

EN: European Norm

EUH: European Hazard Statement

EWC: European Waste catalogue

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

LC50: Median lethal concentration

LD50: Median lethal dose

NOAEL: No-observed-adverse-effect-level
NOEC: No observed effect concentration
NOEL: No observed effect level
OEL: Operator exposure level
PBT: Persistent, bioaccumulative, Toxic
PEC: Predicted effect level
PNEC: Predicted No effect Concentration
REACH: Registration, evaluation and autorisation of chemicals
RID: Regulations concerning the international carriage of dangerous goods by rail
STEL: Short Term Exposure Limit
TWA: Time weighted average
vPvB: Very persistent, very bioaccumulative.

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.

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