

PRODUCT SAFETY DATA SHEET

Limestone

(Prepared in accordance with Annex II of the REACH Regulation EC 1907/2006, Regulation (EC) 1272/2008 (CLP) and 2015/830.)

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

1.1. Identification of the substance or preparation

This datasheet applies to the following products:

1.1.1 Limestone

| | |
|---------------------------|--|
| Substance Name | Natural Calcium Carbonate |
| Synonyms | Limestone Aggregates, Granules and Powders |
| Chemical Name and Formula | Calcium Carbonate – CaCO ₃ |
| Trade Name | Superlon, Longcal, Longcliffe |
| CAS N° | 1317-65-3 |
| EINECS N° | 215-279-6 |
| Reach Registration Number | Product exempted from REACH registration (Annex V) |

1.2 Use of the substance

Powders and granules typically used as inert filler material in applications such as plastics and rubber and building products. Also used in soil stabilization, animal and pet feeds, and glass manufacture. Aggregates are used in concrete, construction and landscaping.

Uses advised against There are no uses advised against

1.3 Company identification

| | |
|--|---|
| Name | Longcliffe Quarries Ltd |
| Address: | Brassington Matlock Derbyshire DE4 4HN |
| Phone: | +44 (0)1629 540284 |
| E-mail of competent person responsible for SDS in the MS or in the EU: | sales@longcliffe.co.uk |

1.4 Emergency telephone

| | |
|---|--------------------|
| UK/European Emergency N° | 999/112 |
| Longcliffe Transport Emergency Contact N° | +44 (0)1629 540284 |
| Refer to Hospital Accident and Emergency Department | |

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2. Hazards identification

2.1 Classification of the Substance

2.1.1 Classification according to Regulation (EC) 1272/2008 (CLP)

Not classified as hazardous for supply/use.

2.2 Label elements

2.2.1 Labelling according to Regulation (EC) 1272/2008 (CLP)

| | |
|---------------------------|----------------|
| Signal word: | No signal word |
| Hazard pictogram: | No pictogram |
| Hazard statements: | None |
| Precautionary statements: | None |

2.3 Other hazards

None of the substances in this product fulfil the criteria for being regarded as a PBT or vPBT substance.



3. Composition / information on ingredients

3.1 Limestone Composition

| | |
|------------------|---|
| Main constituent | Name: Calcium Carbonate CaCO_3 > 98% |
| | CAS: 1317-65-3 |
| | EINECS: 215-279-6 |
| Impurities | No impurities relevant for classification and labelling |
| | Small quantities of trace elements |

4. First-aid measures

4.1 Description of first aid

| | | |
|---|--------------------------------|--|
| | Self Protection of First Aider | Use PPE as required. Ensure adequate ventilation. Avoid breathing dust. Avoid contact with skin and eyes. |
|  | Following Eye Contact | Do not rub eyes. Remove any contact lenses and flush eye(s) immediately by thoroughly rinsing with clean water. In case of irritation seek medical advice. |
| | Following Inhalation | Bring to fresh air, dust in throat and nasal passages should clear spontaneously. In case of serious exposure seek medical advice. |
| | Following Ingestion | Wash out mouth with clean water. In case of discomfort, seek medical advice. |
|  | Following Skin Contact | Wash off with plenty of water. If skin irritation occurs seek medical advice |

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4.2 Most important symptoms and effects, both acute and delayed

None anticipated

4.3 Indication of any immediate medical attention and special treatment needed

Treat symptomatically

5. Fire-fighting measures

5.1 Suitable extinguishing media

The product is not flammable and not combustible. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.

5.1.1 Unsuitable extinguishing media

None known.

5.2 Advice for fire fighters

Fight fire with normal precautions from a safe distance.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust generation. Do not breathe dust. Avoid contact with skin and eyes. Ensure adequate ventilation.

6.1.1 For Non-emergency personnel

Wear protective equipment as described under Heading 8 and follow the advice for safe handling and use given under Heading 7.

6.2 Environmental precautions

Avoid release to the environment.

6.3 Methods and material for containment and cleaning up

Recover the spillage in a dry state if possible but avoid breathing dust

Use water suppression if necessary.

Sweep and shovel material into suitable containers before disposal as described under Heading 13.

6.4 Reference to other sections

For more information on exposure controls/personal protection or disposal considerations, please check section 8 and 13 and the Appendix of this safety data sheet.

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7. Handling and storage

7.1 Precautions for safe handling

7.1.1 Protective Measures

Ensure adequate ventilation. Avoid breathing dust. Avoid build-up of dust. Avoid contact with skin and eyes. Wear protective gloves / eye protection and ppe according to risk assessment.

7.1.2 Hygiene Measures

Maintain a good basic standard of occupational hygiene. Do not eat, drink, or smoke when using the product. Wash hands before breaks and after work.

7.2 Conditions for safe storage, including any incompatibilities

7.3 Specific end uses

See section 1.2.

8. Exposure controls / personal protection

8.1 Exposure Limit Values

Workplace exposure Limits(WEL). From EH40
Total inhalable dust: 10mg/m³ 8 - hour Time Weighted Average
Respirable: 4mg/m³ 8 - hour Time Weighted Average

8.2 Exposure controls

8.2.1 Appropriate engineering controls

Local mechanical exhaust ventilation.

8.2.2 Individual protection measures, such as personal protective equipment

8.2.2.1 Eye/Face protection:

Use eye protection according to EN 166 in dusty atmospheres



8.2.2.2 Skin protection:

Wear suitable chemical resistant protective gloves for frequent or prolonged operations to EN374



8.2.2.3 Respiratory protection:

Use respiratory protection in a dusty atmosphere



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8.2.2.4 Thermal hazards:

Product may be warm upon delivery

8.2.3 Environmental Exposure Controls

Avoid release to the environment.

9. Physical and chemical properties

9.1 Information on basic physical and chemical properties

| | Limestone |
|---------------------------|--|
| Physical form | Powder/granules/chippings |
| Colour | Grey white/white |
| Odour | Odourless |
| pH (saturated solution) | 8.5 – 9.5 |
| Boiling Range/Point | Not applicable |
| Melting Point | 1339°C |
| Decomposition Temperature | Above 825°C |
| Flash Point (PMCC) | Not applicable |
| Auto-flammability | Not auto-flammable |
| Flammability | Non-flammable |
| Explosive Properties | Stable under normal conditions |
| Vapour Pressure | Negligible vapour pressure at ambient conditions |
| Relative Density | 2.6 – 2.8 g/cm ³ |
| Solubility in Water | 0.014 g/l (20°C) 0.018 g/l (75°C) |

10. Stability and reactivity

10.1 Reactivity

Acids. Limestone (calcium carbonate) reacts to form carbon dioxide (CO₂).

10.2 Chemical Stability

Under normal conditions of use and storage, limestone is stable.

10.3 Possibility of hazardous reactions

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Stable and inert under normal conditions.

10.4 Incompatible Materials

Incompatible with acids, alum, ammonium salts, fluorine, magnesium.

10.5 Hazardous Decomposition Products

Carbon Dioxide (CO₂) – oxygen displacement.

11. Toxicological information

11.1 Information on toxicological effects

| | |
|--------------------------------|---|
| Acute toxicity - ingestion: | Based on the available data, the classification criteria are not met. LD50 (oral/rat) mg/kg: >2000 mg/kg bw/day (OECD 420) |
| Acute toxicity – skin contact: | Based on the available data, the classification criteria are not met. LD50 (skin/rat) mg/kg: >2000 mg/kg (OECD 402) |
| Acute toxicity - inhalation: | Based on the available data, the classification criteria are not met. LC50 (inhalation/rat) mg/l/4h: >3 bw/day (OECD 403) |
| Skin corrosion/irritation: | Based on the available data, the classification criteria are not met. Irritating to the skin (rabbit) – Negative (OECD 404) |
| Serious eye damage/irritation: | Based on the available data, the classification criteria are not met. Irritating to the eyes (rabbit) – Negative (OECD 405) |
| Respiratory sensitization: | Based on the available data, the classification criteria are not met. Weight of evidence approach |
| Skin sensitisation: | Based on the available data, the classification criteria are not met. Sensitisation (mouse) – Negative (OECD 429) |
| Germ cell mutagenicity: | Based on the available data, the classification criteria are not met. In vitro: Bacteria – Negative (OECD 471) |
| Carcinogenicity: | Based on the available data, the classification criteria are not met. Weight of evidence approach |
| Reproductive toxicity: | Based on the available data, the classification criteria are not met. NOAEL: 1000 mg/kg bw/day (rat) (OECD 222) |
| STOT – single exposure: | Based on the available data, the classification criteria are not met. Weight of evidence approach |
| STOT – repeated exposure: | Based on the available data, the classification criteria are not met. Weight of evidence approach |
| Aspiration hazard: | Based on the available data, the classification criteria are not met. Weight of evidence approach |

12. Ecological information

12.1 Toxicity

| | |
|---|--|
| 12.1.1: Acute/chronic toxicity (fish): | Non-toxic to aquatic life. |
| 12.1.2: Acute/chronic toxicity (aquatic invertebrates): | Non-toxic to aquatic life. |
| 12.1.3: Acute/chronic toxicity (aquatic plants): | EC10 (72 hour) for freshwater <i>Desmodesmus subspicatus</i> : >14 mg/l (OECD 201) |
| 12.1.4: Toxicity to microorganisms e.g. bacteria: | NOEC (3 hours) for activated sludge: 1000 mg/l (OECD 209) |
| 12.1.5: Chronic toxicity to aquatic organisms: | Non-toxic to aquatic life. |

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12.1.6: Toxicity to soil dwelling organisms:

LC50 for soil macroorganisms (Eisenia foetida):
> 1000 mg/kg (OECD 207)
NOEC for soil microorganisms (28d):
1000 mg/kg (OECD 216)

12.1.7: Acute/chronic toxicity (aquatic plants):

NOEC (21 days) for terrestrial plants:
1000 mg/kg dw soil (OECD 208)

12.2 Persistence and degradability

Not applicable for inorganic substances.

12.3 Bioaccumulative potential

Not applicable for inorganic substances.

12.4 Mobility in soil

The product has low mobility in soil.

12.5 Results of PBT and VPVB assessment

Not applicable for inorganic substances.

12.6 Other adverse effects

None known.

13. Disposal Considerations

13.1 Waste treatment methods:

Disposal should be in accordance with local, state or national legislation.

14. Transport information

14.1 UN No

Not applicable

14.2 UN Proper Shipping Name

Not applicable

14.3 Transport Hazard classes

Not applicable

14.4 Packing Group

Not applicable

14.5 Environmental hazards

Not applicable

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14.6 Special precautions for user

See Section 2

14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code

Not applicable

15. Regulatory information

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

| | |
|-----------------------|------|
| Authorisations: | None |
| Restrictions on use: | None |
| Other EU Regulations: | None |
| National regulations: | None |

15.1 Chemical safety assessment

Not applicable

16. Other information

16.1 References

Existing Safety Data Sheet (SDS)

16.2 Legend

Abbreviations

| | |
|--------|---|
| EC50: | Median effective concentration |
| LC50: | Median lethal concentration |
| LD50: | Oral median lethal dose / Dermal median lethal dose |
| NOEC: | No Observed Effect Concentration |
| OEL: | Occupational exposure limit |
| PBT: | Persistent, Bioaccumulative and Toxic |
| PNEC: | Predicted No Effect Concentration |
| SCOEL: | The EU Scientific Committee on Occupational Exposure Limits |
| STEL: | Short Term Exposure Limit |
| TWA: | Time Weighted Average |
| vPvB: | very Persistent and very Bioaccumulative |

16.2 Revision

This Safety Data Sheet was prepared in accordance with EC regulation (EC) No 1907/2006.

PRODUCT SAFETY DATA SHEET

Disclaimer

This safety data sheet (SDS) is based on the legal provisions of the REACH Regulation (EC 1907/2006; article 31 and Annex II), as amended. 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 to the extended Safety Data Sheet (eSDS): Exposure Scenario

Not applicable