



Granular Limestone

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Revision Number: 1

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND COMPANY/UNDERTAKING

1.1 Name of Product

Granular Limestone

1.2 Use of the Substance/Preparation

Fertiliser

1.3 Manufacturer/Distributor

Thomas Elliott (Fertilisers)
Selby Place
Stanley Industrial Estate
Skelmersdale
WN8 8EF
Tel: 01695 51875
Email: info@thomas-elliott.co.uk

1.4 Emergency Contact

Tel: 01695 51875 (Office Hours)

2. HAZARDS IDENTIFICATION

2.1 Classification

Classification according to Directive EC 1272/2008 Classification, Labelling and Packaging.
This mixture is not classified as dangerous to humans or the environment.

2.2 Label elements

There are no statutory labelling requirements under regulation 1272/2008 and regulation 453/2012.

2.3 Other hazards

Mixture not classed as PBT or vPvB.

3. COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Chemical Characterisation: Substance

CAS No.: 1317-65-3 Calcium Carbonate

3.2 Mixtures

There are no components at concentrations classified as hazardous according to Directive EC 1272/2008 Classification, Labelling and Packaging.

4. FIRST AID MEASURES

4.1 Description of First Aid Measures

Eye contact – Immediately rinse with clean water for 15 minutes. Seek medical attention if symptoms develop or persist.

Skin contact – Wash exposed areas of skin with soap and water following use.

Ingestion – Wash out mouth with water and seek medical advice if symptoms develop or persist.

Inhalation – Remove to fresh air.

4.2 Most important symptoms and effects, both acute and delayed

No further relevant information available.

4.3 Indication of immediate medical attention and special treatment needed

Symptomatic treatment.

5. FIRE FIGHTING MEASURES

Non flammable

5.1 Extinguishing Media

Use foam, carbon dioxide, dry powder, sand. The mixture is not classified as flammable. As such extinguishing media appropriate for surrounding materials should be chosen.

5.2 Special hazards arising from substance or mixture

Possible irritant fumes arising from product decomposition.

5.3 Advice for firefighters

Contain spread of extinguishing fluids. Wear self-contained breathing apparatus in confined spaces.

6. ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

Ensure adequate ventilation. Wear protective gloves and eye protection. Wash hands and exposed skin after handling.

6.2 Environmental precautions

Do not allow to enter drains or sewers.

6.3 Methods and material for containment and cleaning up:

Sweep up and shovel product or use other means and place in container for reuse (preferred) or disposal.

7. HANDLING & STORAGE

7.1 Precautions for Safe Handling

Ensure good ventilation at workplace. Ensure good hygiene practices are observed. Do not eat, drink or smoke when handling this product. Do not breathe dust. Avoid contact with skin and eyes. Ensure workplace exposure limits are observed. Do not block stack pallets.

7.2 Conditions for Safe Storage

Store in original containers, tightly closed in a secure, well ventilated, cool but frost-free, dry area. Store clear of foodstuffs and in a separate stack from herbicides.

7.3 Specific end use

Fertiliser

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

8.1 Control parameters

Follow workplace regulatory exposure limits for all types of airborne dust (e.g. total dust, respirable dust, respirable crystalline silica dust) The OEL (Occupational Exposure Limit) for respirable crystalline silica dust is 0.1mg/m³ in the United Kingdom, measured as an 8 hour TWA (Time Weighted Average). Nuisance dust: Inhalable dust 10 mg/m³ // Respirable dust 4 mg/m³

Desired No Effect Level (DNEL)

Worker

Acute systemic effects dermal:	580	mg/kg/day
Acute systemic effects inhalative:	292	mg/m ³
Systemic long-term effects dermal:	580	mg/kg/day
Systemic long-term effects inhalative:	292	mg/m ³

8.2 Exposure Controls:

The following precautions are considered to be good practice when using any chemicals irrespective of their classification unless otherwise specified. Primary Hazard considered as handling of concentrate. Gloves: to BS EN374 of gauntlet type in Natural Rubber or PVC (not Nitrile) recommended for acid resistance.

Clothing: Coveralls/apron to BS EN465/466/4679.

9. PHYSICAL & CHEMICAL PROPERTIES

9.1 Information on basic physical and chemical properties:

Appearance	Greyish-white Granule
Odour	Malty
pH	8.5-9.5
Boiling point	n/a
Melting point	n/a
Flash point	n/a
Flammability	n/a
Autoflammability	n/a
Explosivity	n/a
Oxidising properties	n/a
Vapour Pressure	n/a
Relative density	1,350kg/m ³
Solubility	0.016g/L
Decomposition temperature	n/a

9.2 Other Information:

None

10. STABILITY & REACTIVITY

10.1 Reactivity

Stable under normal conditions of storage and use.

10.2 Stability

Stable under normal conditions.

Decomposition will begin at 900°C forming CaO and CO₂.

10.3 Possibility of hazardous reactions

Information not available

10.4 Conditions to Avoid

Extremes of temperature

10.5 Incompatible materials

Acids

10.6 Hazardous Decomposition Products

May react with acids forming carbon dioxide which displaces oxygen (danger of asphyxiation)

11. TOXICOLOGICAL INFORMATION

11.1 Information on Toxicological Effects

Not classified as harmful by inhalation, ingestion or in contact with skin. Ingestion of large quantities may cause gastric disturbance.

Acute toxicity, data for Calcium Carbonate (1317-65-3)

LD/LC50 values that are relevant for classification:

Oral LD50 >5,000 mg/kg (rat)

12. ECOLOGICAL INFORMATION

12.1 Toxicity

12.1 Toxicity

Aquatic toxicity:

Calcium Carbonate (1317-65-3)

LC50/48h	1,000 mg/l (Daphnia magna)
LC50/72h	>200 mg/l (algae)
LC50/96 h	0.22 mg/l (fish)

Not classified as hazardous. Provides nutrients essential to plant growth.

12.2 Persistence and degradability

No data

12.3 Bioaccumulative potential

No data

12.4 Mobility in soil

Remark:

Calcium carbonate in solid and dissolved state is a natural component of the geosphere. Adverse effects on the environment are not to be expected; however, concentrated slurries of calcium carbonate may have adverse effect on aquatic organisms (disturbance of microflora and microfauna) when entering natural surface water.

12.5 Results of PBT and vPvB

Not classified

12.6 Other adverse data

No data

13. DISPOSAL CONSIDERATIONS

Disposal route should not permit contamination of groundwater.

13.1 Waste treatment methods

Dispose of waste through a reputable waste disposal contractor in accordance with the Environmental Protection Act 1990.

14. TRANSPORT INFORMATION

14.1 UN-Number

ADR, IMDG, IATA Not applicable

14.2 UN proper shipping name

ADR, IMDG, IATA Not applicable

14.3 Transport hazard class(es)

ADR, IMDG, IATA Not applicable

14.4 Packaging Group

ADR, IMDG, IATA Not applicable

14.5 Environmental hazards

Not a marine pollutant

14.6 Special precautions for user

None

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 to this substance:

This substance is classified and labelled in accordance with regulation 1999/45/EC, 1272/2008, the statutory instrument No.716 2009 Chemicals (Hazard Information and Packaging) regulations and the EC Fertiliser Regulations 2003, Regulation (EC) No 1907/2006 of the European Parliament and of the Council of 18 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 Regulation (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.

15.2 Chemical Safety Assessment

Not undertaken for this material

16. OTHER INFORMATION

Reason for revision

MSDS re-formatted in-line with regulation 453/2010 all sections affected.

Liability

The product label provides information on the use of the product: do not use otherwise, unless you have assessed any potential hazard involved and the safety measures required. Prepared by Thomas Elliott (Fertilisers), for Health and Safety purposes from the best knowledge available at the time of printing.