

1. IDENTIFICATION OF SUBSTANCE / PREPARATION & COMPANY / UNDERTAKING

SUBSTANCE NAME	CALCIUM CARBONATE
SYNONYMS	GROUND LIMESTONE
CAS#	1317-65-3

APPLICATIONS

Used as filler in the manufacture of glass, asphalt, fertiliser, feed and roofing products. These materials should be used in accordance with the relevant National and/or European Standards and Codes of Practice.

COMPANY DETAILS

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2. HAZARD IDENTIFICATION

Fine powder can behave like a liquid; therefore there is a hazard of engulfment in bulk storage facilities.

Handling ground and powdered limestone or crushing, drilling, hammering, sawing or breaking products containing ground and powdered limestone, can produce dust. If inhaled in excessive quantities over extended periods, respirable dust can constitute a long term health hazard.

Ground and powdered limestone contain small amounts of naturally occurring silica (Quartz Or Silicon Dioxide). Handling ground and powdered limestone or crushing, drilling, hammering, sawing or breaking products containing ground and powdered limestone, can produce hazardous silica dust. If inhaled in sufficient quantity, respirable dust containing silica can constitute a health hazard.

Analysis of materials produced at the above location show a level of silica <0.5%. This is considered to present a very low risk when the product is handled according to best practice and advice contained within this Safety Data Sheet (see Section 8).

3. COMPOSITION/ INFORMATION ON INGREDIENTS

Form: Naturally occurring Limestone in ground form

Range: 97.7%-99.8%

4. FIRST AID MEASURES

INHALATION:

Immediately remove to fresh air. If breathing difficulties are experienced, seek medical attention.

SKIN CONTACT:

If irritation occurs, flush skin with plenty of water. Remove contaminated clothes and shoes. Wash clothing before reuse. Seek medical attention if irritation develops and persists.

EYE CONTACT:

In case of contact, immediately flush eyes with plenty of water. Remove contact lenses if worn. If irritation persists get medical attention.

INGESTION:

If swallowed, do not induce vomiting unless directed to do so by medical personnel. Get medical attention if distress develops.

5. FIRE FIGHTING MEASURES

Not considered to be a fire hazard, however product will oxidise under intense heat (above 825°C) to form Calcium Oxide (Burnt Lime, CaO) which is highly alkaline and caustic. Calcium Oxide reacts violently with water, releasing heat in the process to form Calcium Hydroxide (Slaked Lime) which is alkaline and caustic.

SPECIAL PROTECTIVE EQUIPMENT FOR FIRE FIGHTERS:

Proper protective equipment including suitable respirators or breathing apparatus must be worn.

6. ACCIDENTAL RELEASE MEASURES

PERSONAL PRECAUTIONS:

Keep away from ignition sources. See Section 8 for guidance on personal protective equipment. See Section 7 for guidance on handling the product.

ENVIRONMENTAL PRECAUTIONS:

Prevent release into watercourses, ditches and drains.

METHODS FOR CLEANING:

Avoid dry sweeping which creates dust. Spray with water to prevent airborne dust. Vacuum or sweep/ shovel up and transfer into suitable receptacles for disposal. If dust becomes airborne wear a dust mask or respirator

7. HANDLING AND STORAGE

HANDLING:

If the product is supplied bagged, please note that the bags are heavy and appropriate methods of manual handling should be employed.

STORAGE:

Store product under cover in dry conditions. Do not store near acids

8. EXPOSURE CONTROLS/ PERSONAL PROTECTION

TAKE MEASURES TO PREVENT:

Inhalation of excessive quantities of dust during crushing, drilling, hammering, sawing or breaking products.

Use ventilation adequate to keep exposures below recommended exposure limits.

OCCUPATIONAL EXPOSURE LIMITS:

Dust, total inhalable 10mg/ m³ 8h TWA Dust, respirable 4mg/ m³ 8h TWA

Silica, total respirable 0.1 mg/ m³ 8h TWA

RESPIRATORY PROTECTION:

Suitable respiratory protection should be used if required to ensure exposure is below the Workplace Exposure Levels.

HAND PROTECTION:

Wear standard work gloves (leather, cotton etc.) as needed to prevent abrasion .

EYE PROTECTION:

Goggles should be worn if there is a risk of product entering the eyes (including dust).

SKIN PROTECTION:

Wear suitable clothing

Do not eat, smoke or drink where material is handled, processed or stored. Hands should be washed thoroughly before handling or eating food or drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White powder	Auto Flammability:	Not determined
Odour:	None	Flammability:	Not determined
pH:	Not determined	Explosive Properties:	Not determined
Boiling Point/ Range:	Not applicable	Oxidising Properties:	Not determined
Melting Point/ Range:	Magnesium and Calcium carbonate decompose above 825°	Vapour Pressure:	Not applicable
Flash Point:	Not determined	Relative Density:	Above 2.0
		Water Solubility:	Mostly Insoluble
		Fat Solubility:	Not determined

10. STABILITY AND REACTIVITY

REACTIVITY:

Product is stable and inert under normal ambient conditions.

CHEMICAL STABILITY:

Stable under normal conditions

POSSIBILITY OF HAZARDOUS REACTIONS:

No dangerous reaction known under conditions of normal use. Product releases carbon dioxide when in contact with strong acids. May react violently with fluorine gas.

HAZARDOUS DECOMPOSITION PRODUCTS:

When heated above 825°C magnesium and calcium carbonate decompose to form magnesium oxide or calcium oxide.

11. TOXICOLOGICAL INFORMATION

INHALATION:

Acute: May cause respiratory tract irritation

Chronic: Levels of crystalline silica in this product are deemed low risk and less than the required threshold for inclusion under CLP. However, chronic exposure may lead to silicosis. Therefore, it is advised to closely follow the guidance given in Section 8 of this data sheet.

SKIN CONTACT:

May cause skin irritation. Symptoms may include skin abrasion and redness.

EYE CONTACT:

Product entering the eyes may cause irritation. Symptoms may include discomfort or pain, excessive blinking and tear production, with marked redness and swelling of the conjunctiva.

INGESTION:

May be harmful if swallowed. May cause stomach distress, nausea or vomiting

12. ECOLOGICAL INFORMATION

These products are of a naturally occurring material. In its dissolved state it is a natural and indispensable component of natural (hard) waters, therefore detrimental effects to the environment can be excluded. Concentrated suspensions of the powder in natural waters may have harmful effects on aquatic organisms, therefore release into natural waters should be prevented. Dispose of product and any packaging supplied in accordance with local authority requirements.

13. DISPOSAL CONSIDERATION

SAFE HANDLING OF RESIDUES/ WASTE PRODUCT:

Classed as 'non-hazardous' but should be disposed of in accordance with local and national legal requirements.

14. TRANSPORT INFORMATION

SPECIAL CARRIAGE REQUIREMENTS:

Not classified as dangerous for transport.

15. REGULATORY INFORMATION

CLASSIFICATION:

Not classified as dangerous.

However, consideration of the following risk & safety phrases is recommended:

EC1272/2008

HAZARD STATEMENTS:

H317 - May cause skin irritation

H335 - May cause respiratory irritation

H372 - Causes damage to organs through prolonged or repeated exposure that may be released if materials are crushed, cut, drilled, hammered or sawed

PRECAUTIONARY STATEMENTS:

P261- Avoid breathing dust/fume/vapours.

P271- Use only outdoors or in a well-ventilated area.

P281- Use personal protective equipment as required (see Section 8)

16. OTHER INFORMATION

TRAINING ADVICE:

Wear and use of PPE.

RECOMMENDED USES AND APPLICATIONS:

Industrial and construction applications.

FURTHER INFORMATION:

The Safety Health and Welfare at Work Chemical Agents Regulations 2001
HSA Information Sheet - Safety Data Sheets for Hazardous Chemicals
Dangerous Substances Directive (DSD) 67/548/EEC
Classification, Labelling and Packaging Regulations (CLP) EC1272/2008

LEGAL NOTICE

The information in this Safety Data Sheet was believed to be correct at the time of issue. However, no warranty is made or implied as to the accuracy or completeness of this information.

If you have purchased this product for supply to a third party for use at work, it is your duty to take all necessary steps to ensure that any person handling or using the product is provided with the information in this sheet.

If you are an employer it is your duty to tell your employees and others who may be affected of any hazards described in this sheet and any of the precautions which should be taken.

This Safety Data Sheet does not constitute the users own assessment of workplace risk, and it is the users sole responsibility to take all necessary precautions when using this product.