
SAFETY DATA SHEET

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

1.1 Product identifier

- Product Name: SB Greens Grade Gypsum
- Product Description: Absorbent
- Chemical Name: Calcium sulphate dihydrate (gypsum)
- CAS Number: 10101-41-4
- EC Number: 600-148-1

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

- Use of the substance/mixture: Absorbent material
- Use advised against: No information available

1.3 Details of the supplier of the safety data sheet

- Name of Supplier: Soil Biology Ltd
- Address of Supplier: Unit 30
Branbridges Estate ,
East Peckham, Kent
TN12 5HF
UK
- Telephone: +44 (0) 1892 883759
- Email: info@soilbiology.uk

1.4 Emergency telephone number

- Emergency Telephone: +44 (0) 1892 883759
08:00 – 17:00 Monday – Friday (except UK bank holidays)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Not Classified
- Additional information: For full text of Hazard- and EU Hazard-statements: see section 16

2.2 Label elements

- Symbols: None
- Signal Word: None
- Hazard statements
None
- Precautionary statements
None
- Supplemental Hazard Information (EU)
EUH210 - Safety data sheet available on request

2.3 Other hazards

The product gives potential for generation of respirable dust during handling and use. Dust may contain respirable crystalline silica. Prolonged inhalation of respirable dust may cause lung fibrosis. Principal symptoms of lung fibrosis are cough and breathlessness. Occupational exposure to respirable dust and respirable crystalline silica should be monitored and controlled. Repeated inhalation of excessive amounts of respirable silica may cause silicosis.

SECTION 3: Composition/information on

3.1 Substances

- Calcium sulphate dihydrate (gypsum)
Concentration: 97.5 - 100%
CAS Number: 10101-41-4
EC Number: 600-148-1
Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]: Not Classified
- Natural constituents include clay, limestone and quartz (SiO₂, crystalline

silica) 3.2 Mixtures

SECTION 4: First aid measures

4.1 Description of first aid measures

- Ingestion
Give plenty of water to drink
Never give anything by mouth to an unconscious person
Do not induce vomiting unless directed by medical personnel. Get medical advice/attention if you feel unwell.
- Contact with skin
Wash affected area with plenty of soap and water
Take off contaminated clothing and wash it before reuse. If skin irritation occurs: Get medical advice/attention.
- Contact with eyes
If substance has got into eyes, immediately wash out with plenty of water for several minutes Remove contact lenses, if present and easy to do. Continue rinsing.
Irrigate eyes thoroughly whilst lifting eyelids
If eye irritation persists: Get medical advice/attention.
- Inhalation
Remove person to fresh air and keep comfortable for breathing.
Keep warm and at rest, in a half upright position. Loosen clothing
If breathing is difficult, oxygen should be given by a trained person Apply artificial respiration only if patient is not breathing
IF exposed or concerned: Call a doctor.

4.2 Most important symptoms and effects, both acute and delayed

- Contact with eyes
May cause redness and irritation
- Contact with skin
May cause skin irritation
- Ingestion
May cause irritation of the throat
- Inhalation
Dust may cause respiratory irritation.
Long term exposure to crystalline silica can cause silicosis

4.3 Indication of any immediate medical attention and special treatment needed - Treat symptomatically

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing media: Not flammable. In case of fire use extinguishing media appropriate to surrounding conditions
- Unsuitable extinguishing media: No information available

5.2 Special hazards arising from the substance or mixture

- Collect contaminated fire extinguishing water separately. This MUST not be discharged into drains. Prevent fire extinguishing water from contaminating surface or ground water.
- Decomposition products may include sulphur oxides
- Decomposition products may include calcium oxides

5.3 Advice for firefighters

- Wear self-contained breathing apparatus (SCBA).

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions for non-emergency personnel: Do not breathe dust; Avoid contact with skin and eyes; Wash thoroughly after dealing with spillage; Remove contaminated clothing
- Personal precautions for emergency responders: Wear suitable protective clothing, including eye/face protection and gloves (butyl rubber are recommended); See section(s): 8

6.2 Environmental precautions

- Do not allow to enter public sewers and watercourses

6.3 Methods and material for containment and cleaning up

- Avoid formation of dust
- Wash thoroughly after dealing with spillage
- Small spills
 - Wipe up spillage with damp absorbent cloth or towel
 - Wash spill site with water and detergent
- Large spills
 - Damp down to avoid dust generation
 - Use vacuum cleaner to collect spilled material
 - Collect as much as possible in clean container for reuse or disposal
 - Remove contaminated material to safe location for subsequent disposal

6.4 Reference to other sections

- See section(s): 7, 8 & 13 for more information

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- Avoid contact with skin and eyes
- Do not breathe dust
- Use only outdoors or in a well-ventilated area.
- No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
- Wear protective clothing as per section 8
- Use good personal hygiene practices
- Wash thoroughly after handling.

7.2 Conditions for safe storage, including any incompatibilities

- Keep in a cool, dry, well ventilated place

SECTION 7: Handling and storage (....)

- Keep container tightly closed.
- Substance is hygroscopic
- Protect from moisture.
- Keep away from oxidising substances
- Keep away from food, drink and animal feedingstuffs

7.3 Specific end use(s)

- No information available
-

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

- For currently recommended monitoring procedures, see HSE series 'Methods for the Determination of Hazardous Substances' (MDHS)
- Calcium sulphate dihydrate
 - WEL (long term): 10 mg/m³ (UK, inhalable dust)
 - WEL (long term): 4 mg/m³ (UK, respirable dust)
 - DNEL (inhalational) 21.17 mg/m³ Industry, Long Term, Systemic Effects
 - PNEC (STP) 100 mg/l
- Crystalline silica
 - (EU) OELV (long term TWA) 0.1 mg/m³
 - WEL (long term): 0.1 mg/m³ (UK)
- Limestone
 - WEL (long term): 10 mg/m³ (UK, inhalable dust)
 - WEL (long term): 4 mg/m³ (UK, respirable dust)

8.2 Exposure controls

- Selection and use of personal protective equipment should be based on a risk assessment of exposure potential
- Engineering controls
 - If practicable, engineering controls should be provided where airborne concentrations exceed exposure limits
 - Use local exhaust ventilation and/or enclosures.
- Respiratory protection
 - No respiratory protection is needed if ventilation/extraction is adequate, otherwise wear approved dust mask
 - Use type FFP2 (EN 143) dust masks
- Skin protection
 - Wear suitable gloves
 - Butyl rubber or nitrile rubber are recommended
 - The selection of a suitable glove depends on work conditions and whether the product is present on its own or in combination with other substances. Breakthrough time is dependent on the characteristics of the brand of glove used and the supplier should be consulted.
 - The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Eye/face protection
 - Wear safety glasses approved to standard EN 166.
- Hygiene measures
 - Wash thoroughly after handling.
 - Eyewash bottles should be available
 - Contaminated work clothing should not be allowed out of the workplace. Contaminated clothing should be laundered before reuse

SECTION 8: Exposure controls/personal protection (....)



SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

- Appearance: Granules; white
- Odour: Odourless
- Odour threshold: No information available
- pH: 7
- Melting point/freezing point: 1460 °C
- Initial boiling point and boiling range: No information available
- Flashpoint: Not applicable
- Evaporation Rate: No information available
- Flammability (solid, gas): Not applicable
- Upper/lower flammability or explosive limits: Not applicable
- Vapour Pressure: No information available -
- Vapour Density: No information available -
- Solubility(ies): 2.4 - 2.7 g/L @ 20 °C
- Partition Coefficient (n-Octanol/Water): No information available
- Autoignition Temperature: No information available
- Decomposition temperature: No information available
- Viscosity: Not applicable
- Explosive Properties: Non-explosive
- Oxidising Properties: Not oxidising
- Relative Density: 2.96 g/cm³

9.2 Other information

- Molecular formula: CaO₄S · 2H₂O
- Molecular weight: 172.17 g/mol
- Bulk density: 801 kg/m³

SECTION 10: Stability and reactivity

10.1 Reactivity

- No information available

10.2 Chemical stability

- Considered stable under normal conditions

10.3 Possibility of hazardous reactions

- No information available

10.4 Conditions to avoid

- Avoid extremes of temperature
- Keep away from moist air or water

10.5 Incompatible materials

- Incompatible with oxidizing substances

10.6 Hazardous decomposition products

- Decomposition products may include toxic and irritant fumes

SECTION 10: Stability and reactivity (....)

- Decomposition products may include sulphur oxides
- Decomposition products may include calcium oxides

SECTION 11: Toxicological information

11.1 Information on toxicological effects

- Acute Toxicity
Based on available data, the classification criteria are not met
LD50 (oral,rat): > 2 000 mg/kg
- Skin corrosion/irritation
Based on available data, the classification criteria are not met
- Serious eye damage/irritation
Based on available data, the classification criteria are not met
- Respiratory or skin sensitisation
Based on available data, the classification criteria are not met
- Germ cell mutagenicity
Quartz (SiO₂) is listed on Annex III of REACH as # Suspected mutagen: The outcome in CTA assay is positive according to ISSCTA
- Carcinogenicity
Quartz (SiO₂) is listed on Annex III of REACH as # Suspected carcinogen: IARC monographs classified the substance as carcinogenic or probably/possibly carcinogenic
Crystalline silica in the form of quartz or cristobalite dust is carcinogenic to humans (Group 1). (IARC Monograph 100, 2012)
Exposure in high concentrations or over prolonged periods of time can lead to lung disease (silicosis) and an increased risk of lung cancer
- Reproductive toxicity
No information available
- Specific target organ toxicity (STOT) - single exposure
Based on available data, the classification criteria are not met
- Specific target organ toxicity (STOT) - repeated exposure
Based on available data, the classification criteria are not met
- Aspiration hazard
Based on available data, the classification criteria are not met
- Contact with eyes
May cause redness and irritation
- Contact with skin
May cause skin irritation
- Inhalation
Dust may cause respiratory irritation.
Long term exposure to crystalline silica can cause silicosis
- Ingestion
May cause irritation of the throat

SECTION 12: Ecological information

12.1 Toxicity

- Based on available data, the classification criteria are not met
- LC50 (fish) >100 mg/l (4 days)
- EC50 (aquatic invertebrates) >100 mg/l (48 hr)
- EC50 (aquatic algae) >100 mg/l (72 hr)

SECTION 12: Ecological information (...)

12.2 Persistence and degradability

- No information available

12.3 Bioaccumulative potential

- Bioaccumulation is not expected

12.4 Mobility in soil

- No information available

12.5 Results of PBT and vPvB assessment

- Not a PBT according to REACH Annex XIII
- Not a vPvB according to REACH Annex XIII

12.6 Other adverse effects

- No information available

SECTION 13: Disposal considerations

13.1 Waste treatment methods

- Uncontaminated material may be returnable. Contact supplier
- Do not flush spilt material into any public water system
- Do not discharge into drains or the environment, dispose to an authorised waste collection point
- Disposal should be in accordance with local, state or national legislation

13.2 Classification

- The waste must be identified according to the List of Wastes (2000/532/EC)

SECTION 14: Transport information

Not classified as hazardous for transport

14.1 UN number

- UN No.: Not applicable

14.2 UN proper shipping name

- Proper Shipping Name: Not applicable

14.3 Transport hazard class(es)

- Hazard Class: Not applicable

14.4 Packing group

- Packing Group: Not applicable

14.5 Environmental hazards

- Not Classified

14.6 Special precautions for user

- No special precautions are required for this product

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code - Not applicable

14.8 Road/Rail (ADR/RID)

SECTION 14: Transport information (....)

- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.9 Sea (IMDG)

- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Pack Group.: Not applicable

14.10 Air (ICAO/IATA)

- Proper Shipping Name: Not applicable
- ICAO UN No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

14.11 DOT / CFR (US Department of Transportation)

- DOT Proper Shipping Name: Not applicable -
- DOT UN No.: Not applicable -
- DOT Hazard Class: Not applicable -
- DOT Packing Group: Not applicable

SECTION 15: Regulatory information

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

- This safety data sheet is provided in compliance with REACH Regulation (EC) No 1907/2006 as amended by Regulation (EU) 2015/830
- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe
- Quartz (SiO₂) is listed on Annex III of REACH as # Suspected carcinogen: IARC monographs classified the substance as carcinogenic or probably/possibly carcinogenic # Suspected mutagen: The outcome in CTA assay is positive according to ISSCTA

15.2 Chemical safety assessment

- A chemical safety assessment is not required under REACH

SECTION 16: Other information

The above information is believed to be correct but does not purport to be all inclusive and shall only be used as a guide. The company will not be held liable for any damage resulting from handling or from contact with this product.

Sources of data: Information from published literature and supplier safety data sheets

Revision No. 2.0. Revised January 2019.

Changes made: Revised to conform to latest version of REACH Annex II

Text not given with phrase codes where they are used elsewhere in this safety data sheet:

- EUH210 - Safety data sheet available on request

Acronyms

- CAS: Chemical Abstracts Service
- DNEL: Derived No-Effect Level

SECTION 16: Other information (....)

- EC: European Community
- GHS: Globally Harmonised System
- IARC: International Agency for Research on Cancer
- OEL: Occupational Exposure Limit
- PBT: Persistent, Bioaccumulative and Toxic
- REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals - STOT RE: Specific Target Organ Toxicity Repeated Exposure
- STOT SE: Specific Target Organ Toxicity Single Exposure
- vPvB: very Persistent and very Bioaccumulative
- WEL: Workplace Exposure Limit

--- end of safety datasheet ---
