SAFETY DATA SHEET
Thistle BoardFinish

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

1.1. Product identifier
Product name Thistle BoardFinish

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Gypsum building plaster.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet
Supplier British Gypsum
East Leake
Loughborough
Leicestershire
LE12 6HX
UK
T: +44 (0) 115 945 6123
E: bgtechnical.enquiries@bpb.com

1.4. Emergency telephone number
Emergency telephone +44 (0) 115 945 6123
8:30am - 5.00pm Monday - Friday (GMT)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards Not Classified
Health hazards Not Classified
Environmental hazards Not Classified

Human health Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. May cause irritation. Prolonged contact with moist or wet product may cause burns.

2.2. Label elements
Hazard statements NC Not Classified
Precautionary statements P102 Keep out of reach of children.

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB. Avoid inhalation of dust. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
Thistle BoardFinish

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Calcium sulfate hemihydrate</th>
<th>50 - 100%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 7778-18-9</td>
<td></td>
</tr>
<tr>
<td>EC number: 231-900-3</td>
<td></td>
</tr>
<tr>
<td>REACH registration number:</td>
<td>01-211944918-26-XXXX</td>
</tr>
</tbody>
</table>

Substance with National workplace exposure limits.

Classification
Not Classified

The full text for all hazard statements is displayed in Section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.

Inhalation
Move affected person to fresh air and keep warm and at rest in a position comfortable for breathing. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Ingestion
Rinse mouth thoroughly with water. Give a few small glasses of water or milk to drink. Stop if the affected person feels sick as vomiting may be dangerous. Do not induce vomiting unless under the direction of medical personnel. If vomiting occurs, the head should be kept low so that vomit does not enter the lungs. Never give anything by mouth to an unconscious person. Maintain an open airway. Loosen tight clothing such as collar, tie or belt.

Skin contact
Brush off loose particles from skin. Remove affected person from source of contamination. Rinse immediately with plenty of water. Get medical attention if symptoms are severe or persist after washing.

Eye contact
Rinse immediately with plenty of water. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 10 minutes. Get medical attention if symptoms are severe or persist after washing.

Protection of first aiders
First aid personnel should wear appropriate protective equipment during any rescue.

4.2. Most important symptoms and effects, both acute and delayed

General information
See Section 11 for additional information on health hazards. The severity of the symptoms described will vary dependent on the concentration and the length of exposure.

Inhalation
Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Ingestion
May cause discomfort if swallowed. May cause stomach pain or vomiting.

Skin contact
Prolonged contact may cause dryness of the skin. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. May cause irritation. Redness. Prolonged contact with moist or wet product may cause burns.

Eye contact
Particles in the eyes may cause irritation and smarting. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. May cause irritation. Redness. Prolonged contact with moist or wet product may cause burns.

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

Notes for the doctor
Treat symptomatically.

Specific treatments
No special treatment required.
Thistle BoardFinish

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media: The product is not flammable. Extinguish with alcohol-resistant foam, carbon dioxide, dry powder or water fog. Use fire-extinguishing media suitable for the surrounding fire.

Unsuitable extinguishing media: Do not use water jet as an extinguisher, as this will spread the fire.

5.2. Special hazards arising from the substance or mixture

Specific hazards: Plaster may form an alkaline solution when mixed with water.

Hazardous combustion products: Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

5.3. Advice for firefighters

Protective actions during firefighting: Avoid breathing fire gases or vapours. Evacuate area. Cool containers exposed to heat with water spray and remove them from the fire area if it can be done without risk. Cool containers exposed to flames with water until well after the fire is out.

Special protective equipment for firefighters: Wear positive-pressure self-contained breathing apparatus (SCBA) and appropriate protective clothing. Firefighter's clothing conforming to European standard EN469 (including helmets, protective boots and gloves) will provide a basic level of protection for chemical incidents.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Personal precautions: No action shall be taken without appropriate training or involving any personal risk. Keep unnecessary and unprotected personnel away from the spillage. Wear protective clothing as described in Section 8 of this safety data sheet. Avoid contact with skin, eyes and clothing. Avoid inhalation of dust. Follow precautions for safe handling described in this safety data sheet. Wash thoroughly after dealing with a spillage.

6.2. Environmental precautions

Environmental precautions: Avoid discharge to the aquatic environment. Large Spillages: Inform the relevant authorities if environmental pollution occurs (sewers, waterways, soil or air).

6.3. Methods and material for containment and cleaning up

Methods for cleaning up: Wear protective clothing as described in Section 8 of this safety data sheet. Clear up spills immediately and dispose of waste safely. Reuse or recycle products wherever possible. Approach the spillage from upwind. Avoid generation and spreading of dust. Small Spillages: Remove spillage with vacuum cleaner or collect with a shovel and broom, or similar. Large Spillages: Collect spillage with a shovel and broom, or similar and reuse, if possible. Collect and place in suitable waste disposal containers and seal securely. Containers with collected spillage must be properly labelled with correct contents and hazard symbol. Flush contaminated area with plenty of water. Wash thoroughly after dealing with a spillage. Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority.

6.4. Reference to other sections

Reference to other sections: For personal protection, see Section 8. For waste disposal, see Section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Usage precautions
Keep out of the reach of children. Read and follow manufacturer's recommendations. Wear protective clothing as described in Section 8 of this safety data sheet. Keep away from food, drink and animal feeding stuffs. Keep container tightly sealed when not in use. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. Avoid contact with eyes and prolonged skin contact. Avoid generation and spreading of dust. Avoid handling which leads to dust formation. Avoid inhalation of dust.

Advice on general occupational hygiene
Wash promptly if skin becomes contaminated. Take off contaminated clothing. Wash contaminated clothing before reuse. Do not eat, drink or smoke when using this product. Wash at the end of each work shift and before eating, smoking and using the toilet. Change work clothing daily before leaving workplace.

7.2. Conditions for safe storage, including any incompatibilities
Storage precautions
Store away from incompatible materials (see Section 10). Store in a dry place. Store in accordance with local regulations.

Storage class
Unspecified storage.

7.3. Specific end use(s)
Specific end use(s)
The identified uses for this product are detailed in Section 1.2.

SECTION 8: Exposure controls/Personal protection

8.1. Control parameters

Occupational exposure limits

Calcium sulfate hemihydrate
- Long-term exposure limit (8-hour TWA): WEL 10 mg/m³ inhalable dust
- Long-term exposure limit (8-hour TWA): WEL 4 mg/m³ respirable dust

Calcium dihydroxide
- Long-term exposure limit (8-hour TWA): WEL 5 mg/m³
- Long-term exposure limit (8-hour TWA): WEL 1 mg/m³
- Short-term exposure limit (15-minute): WEL 4 mg/m³

Quartz (SiO2)
- Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m³ respirable dust
  [Listed as: Silica, respirable crystalline]

Quartz (SiO2)
- Long-term exposure limit (8-hour TWA): WEL 6 mg/m³ inhalable dust
- Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m³ respirable dust
  [Listed as: Silica, amorphous]

WEL = Workplace Exposure Limit.

Calcium sulfate hemihydrate (CAS: 7778-18-9)

DNEL
- Workers - Inhalation; Long term systemic effects: 21.17 mg/m³
- Workers - Inhalation; Short term systemic effects: 5082 mg/m³
- General population - Inhalation; Long term systemic effects: 5.29 mg/m³
- General population - Inhalation; Short term systemic effects: 3811 mg/m³
- General population - Oral; Long term systemic effects: 1.52 mg/kg/day
- General population - Oral; Short term systemic effects: 11.4 mg/kg/day

PNEC
- STP; 100 mg/l

Calcium dihydroxide (CAS: 1305-62-0)
Thistle BoardFinish

DNEL
- Workers - Inhalation; Long term local effects: 1 mg/m³
- Workers - Inhalation; Short term local effects: 4 mg/m³
- General population - Inhalation; Long term local effects: 1 mg/m³
- General population - Inhalation; Short term local effects: 4 mg/m³

PNEC
- Fresh water; 0.49 mg/l
- Fresh water, Intermittent release; 0.49 mg/l
- marine water; 0.32 mg/l
- STP; 3 mg/l
- Soil; 1080 mg/kg

(+)-Tartaric acid (CAS: 87-69-4)

DNEL
- Workers - Inhalation; Long term systemic effects: 5.2 mg/m³
- Workers - Dermal; Long term systemic effects: 2.9 mg/kg/day
- General population - Inhalation; Long term systemic effects: 1.3 mg/m³
- General population - Dermal; Long term systemic effects: 1.5 mg/kg/day
- General population - Oral; Long term systemic effects: 8.1 mg/kg/day

PNEC
- Fresh water; 0.312 mg/l
- Fresh water, Intermittent release; 0.514 mg/l
- marine water; 0.312 mg/l
- STP; 10 mg/l
- Sediment (Freshwater); 1.141 mg/kg
- Sediment (Marine water); 1.141 mg/kg
- Soil; 0.045 mg/kg

8.2. Exposure controls

Appropriate engineering controls
As this product contains ingredients with exposure limits, process enclosures, local exhaust ventilation or other engineering controls should be used to keep worker exposure below any statutory or recommended limits, if use generates dust, fumes, gas, vapour or mist. Provide extract ventilation at the points where emissions occur. Ensure the ventilation system is regularly maintained and tested.

Eye/face protection
Eyewear complying with an approved standard should be worn if a risk assessment indicates eye contact is possible. Personal protective equipment for eye and face protection should comply with European Standard EN166. The following protection should be worn: Dust-resistant, chemical splash goggles.

Hand protection
Wear protective gloves. The most suitable glove should be chosen in consultation with the glove supplier/manufacturer, who can provide information about the breakthrough time of the glove material. To protect hands from chemicals, gloves should comply with European Standard EN374. Considering the data specified by the glove manufacturer, check during use that the gloves are retaining their protective properties and change them as soon as any deterioration is detected. Frequent changes are recommended.

Other skin and body protection
Wear appropriate clothing to prevent repeated or prolonged skin contact.

Hygiene measures
Provide eyewash station and safety shower. Contaminated work clothing should not be allowed out of the workplace. Wash contaminated clothing before reuse. Clean equipment and the work area every day. Good personal hygiene procedures should be implemented. Wash at the end of each work shift and before eating, smoking and using the toilet. When using do not eat, drink or smoke.
**Thistle BoardFinish**

**Respiratory protection**

Respiratory protection complying with an approved standard should be worn if a risk assessment indicates inhalation of contaminants is possible. Respirator selection must be based on exposure levels, the hazards of the product and the safe working limits of the selected respirator. Ensure all respiratory protective equipment is suitable for its intended use and is ‘CE’-marked. Check that the respirator fits tightly and the filter is changed regularly.

**Environmental exposure controls**

Emissions from ventilation or work process equipment should be checked to ensure they comply with the requirements of environmental protection legislation.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Powder</td>
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<tr>
<td>Colour</td>
<td>Pink</td>
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<tr>
<td>Odour</td>
<td>Odourless</td>
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<tr>
<td>Odour threshold</td>
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<tr>
<td>pH</td>
<td>Wet product: 11-13</td>
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<tr>
<td>Melting point</td>
<td>No information available</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flash point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation rate</td>
<td>Not applicable</td>
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<tr>
<td>Evaporation factor</td>
<td>Not applicable</td>
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<tr>
<td>Flammability (solid, gas)</td>
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<tr>
<td>Upper/lower flammability or explosive limits</td>
<td>No information available</td>
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<tr>
<td>Vapour pressure</td>
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<tr>
<td>Relative density</td>
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<tr>
<td>Solubility(ies)</td>
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<td>Auto-ignition temperature</td>
<td>No information available</td>
</tr>
<tr>
<td>Decomposition Temperature</td>
<td>No information available</td>
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<tr>
<td>Viscosity</td>
<td>Not applicable</td>
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<tr>
<td>Explosive properties</td>
<td>Not considered to be explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Does not meet the criteria for classification as oxidising.</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

Other information: None.

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

**Reactivity**

See the other subsections of this section for further details.

#### 10.2. Chemical stability
Thistle BoardFinish

**Stability**
Stable at normal ambient temperatures and when used as recommended. Stable under the prescribed storage conditions.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions**
No potentially hazardous reactions known.

### 10.4. Conditions to avoid

**Conditions to avoid**
Avoid handling which leads to dust formation.

### 10.5. Incompatible materials

**Materials to avoid**
Avoid contact with acids.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products**
Does not decompose when used and stored as recommended.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological effects**
Not regarded as a health hazard under current legislation.

**Acute toxicity - oral**
**Summary**
Based on available data the classification criteria are not met.

**Acute toxicity - dermal**
**Summary**
Based on available data the classification criteria are not met.

**Acute toxicity - inhalation**
**Summary**
Based on available data the classification criteria are not met.

**Skin corrosion/irritation**
**Summary**
Based on available data the classification criteria are not met.

**Serious eye damage/irritation**
**Summary**
Based on available data the classification criteria are not met.

**Respiratory sensitisation**
**Summary**
Based on available data the classification criteria are not met.

**Skin sensitisation**
**Summary**
Based on available data the classification criteria are not met.

**Germ cell mutagenicity**
**Summary**
Based on available data the classification criteria are not met.

**Carcinogenicity**
**Summary**
Based on available data the classification criteria are not met.

**Reproductive toxicity**
**Summary**
Based on available data the classification criteria are not met.

**Specific target organ toxicity - single exposure**
**Summary**
Based on available data the classification criteria are not met.

**Specific target organ toxicity - repeated exposure**
**Summary**
Based on available data the classification criteria are not met.
**Thistle Board Finish**

**Aspiration hazard**
**Summary** Not relevant. Solid.

**General information**
This product has not been tested on animals. Data for ingredients is based on historical evidence.

**Inhalation**
Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

**Ingestion**
May cause discomfort if swallowed. May cause stomach pain or vomiting.

**Skin contact**
Prolonged contact may cause dryness of the skin. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. May cause irritation. Redness. Prolonged contact with moist or wet product may cause burns.

**Eye contact**
Dust may cause slight irritation. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. May cause irritation. Redness. Prolonged contact with moist or wet product may cause burns.

**Route of exposure**
Ingestion Inhalation Skin and/or eye contact

**Target organs**
No specific target organs known.

**Toxicological information on ingredients.**

**Calcium sulfate hemihydrate**

**Toxicological effects**
The toxicity of this substance has been assessed during REACH registration. Not regarded as a health hazard under current legislation.

**Acute toxicity - oral**
Notes (oral LD₅₀)
LD₅₀ >2000 mg/kg, Oral, Rat

**Acute toxicity - inhalation**
Notes (inhalation LC₅₀)
LC₅₀ >3.26 mg/l, 4 hours, Dust/Mist Rat

**Skin corrosion/irritation**
Animal data
Dose: 0.5 g, 4 hours, Rabbit Erythema/eschar score: No erythema (0). Oedema score: No oedema (0). Not irritating.

**Serious eye damage/irritation**
Serious eye damage/irritation
Dose: 100 mg, , Rabbit Not irritating.

**Skin sensitisation**
Skin sensitisation
Buehler test - Guinea pig: Not sensitising.

**Germ cell mutagenicity**
Genotoxicity - in vitro
Bacterial reverse mutation test: Negative.

**Genotoxicity - in vivo**
DNA damage and/or repair: Negative.

**Carcinogenicity**
Carcinogenicity
Based on available data the classification criteria are not met.

**Reproductive toxicity**
Summary
This substance has no evidence of toxicity to reproduction.

**Specific target organ toxicity - single exposure**
Thistle BoardFinish

STOT - single exposure  Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicity - repeated exposure
STOT - repeated exposure  Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard  Not relevant.

SECTION 12: Ecological information

Ecotoxicity  Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment. The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity  Based on available data the classification criteria are not met.

Ecological information on ingredients.

Calcium sulfate hemihydrate
Toxicity  Not toxic at limit of water solubility.

12.2. Persistence and degradability  The product contains mainly inorganic substances which are not biodegradable.

Ecological information on ingredients.

Calcium sulfate hemihydrate
Biodegradation  Substance is inorganic.
Not relevant.

12.3. Bioaccumulative potential  No data available on bioaccumulation.

Ecological information on ingredients.

Calcium sulfate hemihydrate
Bioaccumulative potential  Bioaccumulation is unlikely.

12.4. Mobility in soil  Slightly soluble in water. Hardens in contact with water.

Ecological information on ingredients.

Calcium sulfate hemihydrate
Mobility  The product has poor water-solubility.

12.5. Results of PBT and vPvB assessment  This product does not contain any substances classified as PBT or vPvB.

Ecological information on ingredients.
Thistle Board

**Results of PBT and vPvB assessment**

This substance is not classified as PBT or vPvB according to current EU criteria.

**12.6. Other adverse effects**

None known.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**General information**

The generation of waste should be minimised or avoided wherever possible. Reuse or recycle products wherever possible. This material and its container must be disposed of in a safe way. Disposal of this product, process solutions, residues and by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any local authority requirements.

**Disposal methods**

Dispose of surplus products and those that cannot be recycled via a licensed waste disposal contractor. Waste packaging should be collected for reuse or recycling. Waste should not be disposed of untreated to the sewer unless fully compliant with the requirements of the local water authority.

**SECTION 14: Transport information**

**General**

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

**14.1. UN number**

Not applicable.

**14.2. UN proper shipping name**

Not applicable.

**14.3. Transport hazard class(es)**

No transport warning sign required.

**14.4. Packing group**

Not applicable.

**14.5. Environmental hazards**

Environmentally hazardous substance/marine pollutant

No.

**14.6. Special precautions for user**

Not applicable.

**14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code**

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

Not applicable.

**SECTION 15: Regulatory information**

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

**National regulations**

Health and Safety at Work etc. Act 1974 (as amended).
The Carriage of Dangerous Goods and Use of Transportable Pressure Equipment Regulations 2009 (SI 2009 No. 1348) (as amended) ["CDG 2009"].
EH40/2005 Workplace exposure limits.
Thistle BoardFinish

EU legislation


15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

SECTION 16: Other information

Abbreviations and acronyms used in the safety data sheet

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.
ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.
RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.
IATA: International Air Transport Association.
IMDG: International Maritime Dangerous Goods.
CAS: Chemical Abstracts Service.
ATE: Acute Toxicity Estimate.
LC₅₀: Lethal Concentration to 50 % of a test population.
LD₅₀: Lethal Dose to 50% of a test population (Median Lethal Dose).
EC₅₀: 50% of maximal Effective Concentration.
PBT: Persistent, Bioaccumulative and Toxic substance.
vPvB: Very Persistent and Very Bioaccumulative.

Key literature references and sources for data


Classification procedures according to Regulation (EC) 1272/2008

Not classified.: On basis of test data., Calculation method.

Training advice

Read and follow manufacturer's recommendations. Only trained personnel should use this material.

Document code

BG-SDS-109

Revision comments

This is the first issue.

Revision date

07/01/2020

Revision

02

Supersedes date

09/04/2019

SDS number

8587

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