

## Safety Data Sheet

Thistle® HardWall





## SAFETY DATA SHEET

### Thistle HardWall

According to Regulation (EC) No 1907/2006, Annex II, as amended. Commission Regulation (EU) No 2015/830 of 28 May 2015.

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

##### 1.1. Product identifier

**Product name** Thistle HardWall

##### 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** Eye Irrit. 2 - H319 Skin Sens. 1 - H317

**Environmental hazards** Not Classified

###### Human health

Causes serious eye irritation. May cause skin sensitisation or allergic reactions in sensitive individuals.

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 pictograms



## Thistle HardWall

<b>Signal word</b>	Warning
<b>Hazard statements</b>	H319 Causes serious eye irritation. H317 May cause an allergic skin reaction.
<b>Precautionary statements</b>	P102 Keep out of reach of children. P261 Avoid breathing dust. P280 Wear protective gloves/ protective clothing/ eye protection/ face protection. P302+P352 IF ON SKIN: Wash with plenty of water. P333+P313 If skin irritation or rash occurs: Get medical advice/ attention. P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P501 Dispose of contents/ container in accordance with national regulations.
<b>Contains</b>	Cement, portland, chemicals, Flue dust, portland cement
<b>Supplementary precautionary statements</b>	P264 Wash contaminated skin thoroughly after handling. P272 Contaminated work clothing should not be allowed out of the workplace. P362+P364 Take off contaminated clothing and wash it before reuse. P337+P313 If eye irritation persists: Get medical advice/ attention.

### 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.

### SECTION 3: Composition/information on ingredients

#### 3.2. Mixtures

<b>Calcium sulfate hemihydrate</b>	<b>50 - 100%</b>
CAS number: 7778-18-9                      EC number: 231-900-3                      REACH registration number: 01-2119444918-26-XXXX	
Substance with National workplace exposure limits.	
<b>Classification</b>	
Not Classified	
<b>Slags, ferrous metal, blast furnace</b>	<b>10 - &lt;25%</b>
CAS number: 65996-69-2                      EC number: 266-002-0                      REACH registration number: 01-2119487456-25-XXXX	
Substance with National workplace exposure limits.	
<b>Classification</b>	
Not Classified	
<b>Cement, portland, chemicals</b>	<b>1 - &lt;2.5%</b>
CAS number: 65997-15-1                      EC number: 266-043-4	
<b>Classification</b>	
Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1B - H317 STOT SE 3 - H335	

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<b>Flue dust, portland cement</b>		<b>0.025 - &lt;0.25%</b>
CAS number: 68475-76-3	EC number: 270-659-9	REACH registration number: 01-2119486767-17-XXXX
<b>Classification</b>		
Skin Irrit. 2 - H315		
Eye Dam. 1 - H318		
Skin Sens. 1 - H317		
STOT SE 3 - H335		
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<b>Zinc oxide</b>		<b>0.025 - &lt;0.25%</b>
CAS number: 1314-13-2	EC number: 215-222-5	REACH registration number: 01-2119463881-32-XXXX
M factor (Acute) = 1	M factor (Chronic) = 1	
<b>Classification</b>		
Aquatic Acute 1 - H400		
Aquatic Chronic 1 - H410		
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<b>Quartz (SiO<sub>2</sub>)</b>		<b>0.025 - &lt;0.25%</b>
CAS number: 14808-60-7	EC number: 238-878-4	
<b>Classification</b>		
STOT RE 1 - H372		
<hr/>		
<b>Quartz (SiO<sub>2</sub>)</b>		<b>0.025 - &lt;0.25%</b>
CAS number: 14808-60-7	EC number: 238-878-4	
Substance with National workplace exposure limits.		
<b>Classification</b>		
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

<b>General information</b>	Get medical attention if any discomfort continues. Show this Safety Data Sheet to the medical personnel.
<b>Inhalation</b>	Remove affected person from source of contamination. 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. When breathing is difficult, properly trained personnel may assist affected person by administering oxygen. Place unconscious person on their side in the recovery position and ensure breathing can take place.
<b>Ingestion</b>	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.

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<b>Skin contact</b>	It is important to remove the substance from the skin immediately. In the event of any sensitisation symptoms developing, ensure further exposure is avoided. Brush off loose particles from skin. Remove affected person from source of contamination. Remove contamination with soap and water or recognised skin cleansing agent. Get medical attention if symptoms are severe or persist after washing.
<b>Eye contact</b>	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.
<b>Protection of first aiders</b>	First aid personnel should wear appropriate protective equipment during any rescue.

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

<b>General information</b>	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.
<b>Inhalation</b>	Dust may irritate the respiratory system. Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.
<b>Ingestion</b>	May cause discomfort if swallowed. May cause stomach pain or vomiting.
<b>Skin contact</b>	May cause skin sensitisation or allergic reactions in sensitive individuals. 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.
<b>Eye contact</b>	Causes serious eye irritation. Redness. Profuse watering of the eyes. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. Prolonged contact with moist or wet product may cause burns.

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

<b>Specific treatments</b>	No special treatment required.
<b>Notes for the doctor</b>	Treat symptomatically. May cause skin sensitisation or allergic reactions in sensitive individuals.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

<b>Suitable extinguishing media</b>	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.
<b>Unsuitable extinguishing media</b>	Do not use water jet as an extinguisher, as this will spread the fire.

### 5.2. Special hazards arising from the substance or mixture

<b>Specific hazards</b>	Plaster may form an alkaline solution when mixed with water.
<b>Hazardous combustion products</b>	Thermal decomposition or combustion products may include the following substances: Harmful gases or vapours.

### 5.3. Advice for firefighters

<b>Protective actions during firefighting</b>	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.
<b>Special protective equipment for firefighters</b>	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.

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### 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

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Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

### Slags, ferrous metal, blast furnace

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

### Cement, portland, chemicals

Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust

### Quartz (SiO<sub>2</sub>)

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m<sup>3</sup> respirable dust

[Listed as: Silica, respirable crystalline]

### Quartz (SiO<sub>2</sub>)

Long-term exposure limit (8-hour TWA): WEL 6 mg/m<sup>3</sup> inhalable dust

Long-term exposure limit (8-hour TWA): WEL 2.4 mg/m<sup>3</sup> respirable dust

[Listed as: Silica, amorphous]

### Sodium hydroxide

Short-term exposure limit (15-minute): WEL 2 mg/m<sup>3</sup>

WEL = Workplace Exposure Limit.

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

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 21.17 mg/m <sup>3</sup> Workers - Inhalation; Short term systemic effects: 5082 mg/m <sup>3</sup> General population - Inhalation; Long term systemic effects: 5.29 mg/m <sup>3</sup> General population - Inhalation; Short term systemic effects: 3811 mg/m <sup>3</sup> General population - Oral; Long term systemic effects: 1.52 mg/kg/day General population - Oral; Short term systemic effects: 11.4 mg/kg/day
<b>PNEC</b>	STP; 100 mg/l

### Slags, ferrous metal, blast furnace (CAS: 65996-69-2)

<b>PNEC</b>	Fresh water; 5 g/l Fresh water, Intermittent release; 5 g/l marine water; 0.5 g/l STP; 10 g/l Soil; 1000 mg/kg
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### Flue dust, portland cement (CAS: 68475-76-3)

<b>DNEL</b>	Workers - Inhalation; Long term local effects: 0.84 mg/m <sup>3</sup> Workers - Inhalation; Short term local effects: 4 mg/m <sup>3</sup> General population - Inhalation; Long term local effects: 0.84 mg/m <sup>3</sup> General population - Inhalation; Short term local effects: 4 mg/m <sup>3</sup>
<b>PNEC</b>	Fresh water; 282 µg/l Fresh water, Intermittent release; 282 µg/l marine water; 28 µg/l STP; 6 mg/l Sediment (Freshwater); 875 µg/kg Sediment (Marinewater); 88 µg/kg Soil; 5 mg/kg

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### Zinc oxide (CAS: 1314-13-2)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 5 mg/m <sup>3</sup>
	Workers - Inhalation; Long term local effects: 0.5 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 83 mg/kg/day
	General population - Inhalation; Long term systemic effects: 2.5 mg/m <sup>3</sup>
	General population - Dermal; Long term systemic effects: 83 mg/kg/day
	General population - Oral; Long term systemic effects: 0.83 mg/kg/day
<b>PNEC</b>	Fresh water; 0.0206 mg/l
	marine water; 0.0061 mg/l
	STP; 0.1 mg/l
	Sediment (Freshwater); 117.8 mg/kg
	Sediment (Marinewater); 56.5 mg/kg
	Soil; 35.6 mg/kg

### Sulfonic acids, C14-16 (even numbered)-alkane hydroxy and C14-16 (even numbered)-alkene, sodium salts (CAS: 68439-57-6)

<b>DNEL</b>	Workers - Inhalation; Long term systemic effects: 152.22 mg/m <sup>3</sup>
	Workers - Dermal; Long term systemic effects: 2158.33 mg/kg/day
	General population - Inhalation; Long term systemic effects: 45.04 mg/m <sup>3</sup>
	General population - Dermal; Long term systemic effects: 1295 mg/kg/day
	General population - Oral; Long term systemic effects: 12.95 mg/kg/day
<b>PNEC</b>	Fresh water; 0.024 mg/l
	Fresh water, Intermittent release; 0.02 mg/l
	marine water; 0.002 mg/l
	STP; 4 mg/l
	Sediment (Freshwater); 0.767 mg/kg
	Sediment (Marinewater); 0.077 mg/kg
	Soil; 1.21 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.



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<b>Hygiene measures</b>	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.
<b>Respiratory protection</b>	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.
<b>Environmental exposure controls</b>	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

<b>Appearance</b>	Powder.
<b>Colour</b>	Grey. or Pink.
<b>Odour</b>	Odourless.
<b>Odour threshold</b>	Not determined.
<b>pH</b>	No information available.
<b>Melting point</b>	No information available.
<b>Initial boiling point and range</b>	Not applicable.
<b>Flash point</b>	Not applicable.
<b>Evaporation rate</b>	Not applicable.
<b>Evaporation factor</b>	Not applicable.
<b>Flammability (solid, gas)</b>	No information available.
<b>Upper/lower flammability or explosive limits</b>	No information available.
<b>Vapour pressure</b>	No information available.
<b>Relative density</b>	No information available.
<b>Solubility(ies)</b>	Slightly soluble in water.
<b>Partition coefficient</b>	No information available.
<b>Auto-ignition temperature</b>	No information available.
<b>Decomposition Temperature</b>	No information available.
<b>Viscosity</b>	Not applicable.
<b>Explosive properties</b>	Not considered to be explosive.
<b>Oxidising properties</b>	Does not meet the criteria for classification as oxidising.

#### 9.2. Other information

<b>Other information</b>	None.
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### SECTION 10: Stability and reactivity

## Thistle HardWall

### 10.1. Reactivity

**Reactivity** See the other subsections of this section for further details.

### 10.2. Chemical stability

**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

#### 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** Eye Irrit. 2 - H319 Causes serious eye irritation.

#### Respiratory sensitisation

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

#### Skin sensitisation

**Summary** Skin Sens. 1 - H317 May cause an allergic skin reaction.

#### 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.

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### Specific target organ toxicity - repeated exposure

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

### 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**

May cause skin sensitisation or allergic reactions in sensitive individuals. 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**

Causes serious eye irritation. Redness. Profuse watering of the eyes. Plaster may form an alkaline solution on contact with body moisture or when mixed with water. 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 LD<sub>50</sub>)**

LD<sub>50</sub> >2000 mg/kg, Oral, Rat

#### Acute toxicity - inhalation

#### **Notes (inhalation LC<sub>50</sub>)**

LC<sub>50</sub> >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.

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### Reproductive toxicity

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

### Specific target organ toxicity - single exposure

**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

**Aspiration hazard** Not relevant.

### Cement, portland, chemicals

### Acute toxicity - dermal

**Notes (dermal LD<sub>50</sub>)** LD<sub>50</sub> >2000 mg/kg, Dermal, Rabbit

### Skin corrosion/irritation

**Animal data** Causes skin irritation.

### Serious eye damage/irritation

**Serious eye damage/irritation** Causes serious eye damage.

### Skin sensitisation

**Skin sensitisation** May cause an allergic skin reaction.

### Specific target organ toxicity - single exposure

**STOT - single exposure** May cause respiratory irritation.

## **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

**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.

#### Cement, portland, chemicals

**Toxicity** Not regarded as dangerous for the environment. However, large or frequent spills may have hazardous effects on the environment.

### 12.2. Persistence and degradability

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

### Ecological information on ingredients.

#### Calcium sulfate hemihydrate

## Thistle HardWall

**Biodegradation** Substance is inorganic.  
Not relevant.

### Cement, portland, chemicals

**Persistence and degradability** No data available.

### 12.3. Bioaccumulative potential

**Bioaccumulative potential** No data available on bioaccumulation.

**Partition coefficient** No information available.

### Ecological information on ingredients.

### Calcium sulfate hemihydrate

**Bioaccumulative potential** Bioaccumulation is unlikely.

### Cement, portland, chemicals

**Bioaccumulative potential** No data available on bioaccumulation.

### 12.4. Mobility in soil

**Mobility** Slightly soluble in water. Hardens in contact with water.

### Ecological information on ingredients.

### Calcium sulfate hemihydrate

**Mobility** The product has poor water-solubility.

### Cement, portland, chemicals

**Mobility** No information available.

### 12.5. Results of PBT and vPvB assessment

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

### Ecological information on ingredients.

### Calcium sulfate hemihydrate

**Results of PBT and vPvB assessment** This substance is not classified as PBT or vPvB according to current EU criteria.

### Cement, portland, chemicals

**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

**Other adverse effects** None known.

## **SECTION 13: Disposal considerations**

### 13.1. Waste treatment methods

## Thistle HardWall

<b>General information</b>	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.
<b>Disposal methods</b>	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

<b>General</b>	The product is not covered by international regulations on the transport of dangerous goods (IMDG, IATA, ADR/RID).
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#### 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** Not applicable.

**Annex II of MARPOL 73/78  
and the IBC Code**

### 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.

##### **EU legislation**

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) (as amended).  
Commission Regulation (EU) No 2015/830 of 28 May 2015.  
Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labelling and packaging of substances and mixtures (as amended).

#### 15.2. Chemical safety assessment

## Thistle HardWall

No chemical safety assessment has been carried out.

### SECTION 16: Other information

<b>Abbreviations and acronyms used in the safety data sheet</b>	<p>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</p> <p>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</p> <p>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</p> <p>IATA: International Air Transport Association.</p> <p>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</p> <p>IMDG: International Maritime Dangerous Goods.</p> <p>CAS: Chemical Abstracts Service.</p> <p>ATE: Acute Toxicity Estimate.</p> <p>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</p> <p>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</p> <p>EC<sub>50</sub>: 50% of maximal Effective Concentration.</p> <p>PBT: Persistent, Bioaccumulative and Toxic substance.</p> <p>vPvB: Very Persistent and Very Bioaccumulative.</p>
<b>Classification abbreviations and acronyms</b>	<p>Skin Irrit. = Skin irritation</p> <p>Eye Dam. = Serious eye damage</p> <p>Skin Sens. = Skin sensitisation</p> <p>STOT SE = Specific target organ toxicity-single exposure</p>
<b>Key literature references and sources for data</b>	REACH dossier information. Source: European Chemicals Agency, <a href="http://echa.europa.eu/">http://echa.europa.eu/</a>
<b>Classification procedures according to Regulation (EC) 1272/2008</b>	Skin Irrit. 2 - H315, Eye Dam. 1 - H318, Skin Sens. 1 - H317, STOT SE 3 - H335: Calculation method.
<b>Training advice</b>	Read and follow manufacturer's recommendations. Only trained personnel should use this material.
<b>Document code</b>	BG-SDS-103
<b>Revision comments</b>	This is the first issue.
<b>Revision date</b>	07/01/2020
<b>Revision</b>	01
<b>SDS number</b>	9106
<b>Hazard statements in full</b>	<p>H315 Causes skin irritation.</p> <p>H317 May cause an allergic skin reaction.</p> <p>H318 Causes serious eye damage.</p> <p>H319 Causes serious eye irritation.</p> <p>H335 May cause respiratory irritation.</p> <p>H372 Causes damage to organs through prolonged or repeated exposure if inhaled.</p> <p>H400 Very toxic to aquatic life.</p> <p>H410 Very toxic to aquatic life with long lasting effects.</p>

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