

SAFETY DATA SHEET







# SAFETY DATA SHEET

### **Thistle Bonding 60**

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 Bonding 60

### 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 sub	stance or mixture
Classification (EC 1272/2008	3)
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.

SECTION 3: Composition/info	rmation on ingredients	
3.2. Mixtures		
Calcium sulfate hemihydrate		50 - 100%
CAS number: 7778-18-9	EC number: 231-900-3	REACH registration number: 01- 2119444918-26-XXXX
Substance with National work	kplace exposure limits.	
Classification Not Classified		
The full text for all hazard state	ements is displayed in Section 16.	
SECTION 4: First aid measure	98	
4.1. Description of first aid me	asures	
General information	Get medical attention if any discomfort continues personnel.	. Show this Safety Data Sheet to the medical
Inhalation	Move affected person to fresh air and keep warm breathing. Maintain an open airway. Loosen tight	•
Ingestion	Rinse mouth thoroughly with water. Give a few so the affected person feels sick as vomiting may be under the direction of medical personnel. If vomit that vomit does not enter the lungs. Never give a Maintain an open airway. Loosen tight clothing so	e dangerous. Do not induce vomiting unless ing occurs, the head should be kept low so nything by mouth to an unconscious person.
Skin contact	Brush off loose particles from skin. Remove affect Rinse immediately with plenty of water. Get medi persist after washing.	-
Eye contact	Rinse immediately with plenty of water. Remove apart. Continue to rinse for at least 10 minutes. Go or persist after washing.	
Protection of first aiders	First aid personnel should wear appropriate prote	ective equipment during any rescue.
4.2. Most important symptoms	and effects, both acute and delayed	
General information	See Section 11 for additional information on heal described will vary dependent on the concentration	
Inhalation	Dust may irritate the respiratory system. Frequen increases the risk of developing lung diseases.	t inhalation of dust over a long period of time
Ingestion	May cause discomfort if swallowed. May cause s	tomach pain or vomiting.
Skin contact	Prolonged contact may cause dryness of the skir contact with body moisture or when mixed with w Prolonged contact with moist or wet product may	vater. May cause irritation. Redness.
Eye contact	Particles in the eyes may cause irritation and sma on contact with body moisture or when mixed wit Prolonged contact with moist or wet product may	h water. May cause irritation. Redness.
4.3. Indication of any immedia	te medical attention and special treatment needed	
Notes for the doctor	Treat symptomatically.	
Specific treatments	No special treatment required.	

### **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	om 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	se measures
6.1. Personal precautions, pro	tective 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 precaution	<u>s</u>
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

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 stora	ge, 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 control	ols/Personal protection

### 8.1. Control parameters

### Occupational exposure limits

### Calcium sulfate hemihydrate

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 (SiO2)

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]

### Quartz (SiO2)

Long-term exposure limit (8-hour TWA): WEL 0.1 mg/m<sup>3</sup> respirable dust [Listed as: Silica, respirable crystalline]

### Methanol

Long-term exposure limit (8-hour TWA): WEL 200 ppm 266 mg/m³ Short-term exposure limit (15-minute): WEL 250 ppm 333 mg/m³ Sk

### Limestone

Long-term exposure limit (8-hour TWA): WEL 4 mg/m<sup>3</sup> respirable dust Long-term exposure limit (8-hour TWA): WEL 10 mg/m<sup>3</sup> inhalable dust

### Kaolin

Long-term exposure limit (8-hour TWA): WEL 2 mg/m<sup>3</sup> respirable dust WEL = Workplace Exposure Limit. Sk = Can be absorbed through the skin.

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

DNEL	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
PNEC	STP; 100 mg/l
	Calcium N2,N6-bis(3-carboxypropanoyl)lysine (1:1) (CAS: 1422423-64-0)
DNEL	Workers - Inhalation; Long term systemic effects: 88.16 mg/m³ Workers - Dermal; Long term systemic effects: 12.5 mg/kg/day General population - Inhalation; Long term systemic effects: 21.73 mg/m³ General population - Dermal; Long term systemic effects: 6.25 mg/kg/day General population - Oral; Long term systemic effects: 12.5 mg/kg/day
PNEC	Fresh water; 0.1 mg/l Fresh water, Intermittent release; 100 mg/l marine water; 0.01 mg/l STP; 100 mg/l Sediment (Freshwater); 0.363 mg/kg Sediment (Marinewater); 0.036 mg/kg Soil; 0.014 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.
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<br/>controlsEmissions from ventilation or work process equipment should be checked to ensure they<br/>comply with the requirements of environmental protection legislation.

### **SECTION 9: Physical and chemical properties**

9.1. Information on basic physical and chemical properties		
Appearance	Powder.	
Colour	Pink.	
Odour	Odourless.	
Odour threshold	Not determined.	
рН	No information available.	
Melting point	No information available.	
Initial boiling point and range	Not applicable.	
Flash point	Not applicable.	
Evaporation rate	Not applicable.	
Evaporation factor	Not applicable.	
Flammability (solid, gas)	No information available.	
Upper/lower flammability or explosive limits	No information available.	
Vapour pressure	No information available.	
Relative density	No information available.	
Solubility(ies)	Slightly soluble in water.	
Partition coefficient	No information available.	
Auto-ignition temperature	No information available.	
Decomposition Temperature	No information available.	
Viscosity	Not applicable.	
Explosive properties	Not considered to be explosive.	
Oxidising properties	Does not meet the criteria for classification as oxidising.	
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		
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 Does not decompose when used and stored as recommended. products **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 Based on available data the classification criteria are not met. Summary 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 Based on available data the classification criteria are not met. Summary 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. 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 LC <sub>50</sub> )	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/irritati	on
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	
STOT - single exposure	Not classified as a specific target organ toxicant after a single exposure.
Specific target organ toxicit	y - repeated exposure
STOT - repeated exposure	Not classified as a specific target organ toxicant after repeated exposure.
Aspiration hazard	

Aspiration hazard	Not relevant.
SECTION 12: Ecological inform	nation
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 ingre	edients.
	Calcium sulfate hemihydrate
Toxicity	Not toxic at limit of water solubility.
12.2. Persistence and degrada	ibility
Persistence and degradability	The product contains mainly inorganic substances which are not biodegradable.
Ecological information on ingre	adients.
	Calcium sulfate hemihydrate
Biodegradation	Substance is inorganic. Not relevant.
12.3. Bioaccumulative potentia	
Bioaccumulative potential	No data available on bioaccumulation.
Partition coefficient	No information available.
Ecological information on ingre	edients.
	Calcium sulfate hemihydrate
Bioaccumulative	potential Bioaccumulation is unlikely.
12.4. Mobility in soil	
Mobility	Slightly soluble in water. Hardens in contact with water.
Ecological information on ingre	edients.
	Calcium sulfate hemihydrate
Mobility	The product has poor water-solubility.
12.5. Results of PBT and vPvB	3 assessment
Results of PBT and vPvB assessment	This product does not contain any substances classified as PBT or vPvB.
Ecological information on ingre	adients.
	Calcium sulfate hemihydrate
Results of PBT an assessment	<b>nd vPvB</b> 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 me	ethods
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 i	nformation

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

# EU legislationRegulation (EC) No 1907/2006 of the European Parliament and of the Council of 18<br/>December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of<br/>Chemicals (REACH) (as amended).<br/>Commission Regulation (EU) No 2015/830 of 28 May 2015.<br/>Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16<br/>December 2008 on classification, labelling and packaging of substances and mixtures (as<br/>amended).

### 15.2. Chemical safety assessment

No chemical safety assessment has been carried out.

Abbreviations and acronyms used in the safety data sheet	<ul> <li>ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road.</li> <li>ADN: European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways.</li> <li>RID: European Agreement concerning the International Carriage of Dangerous Goods by Rail.</li> <li>IATA: International Air Transport Association.</li> <li>ICAO: Technical Instructions for the Safe Transport of Dangerous Goods by Air.</li> <li>IMDG: International Maritime Dangerous Goods.</li> <li>CAS: Chemical Abstracts Service.</li> <li>ATE: Acute Toxicity Estimate.</li> <li>LC<sub>50</sub>: Lethal Concentration to 50 % of a test population.</li> <li>LD<sub>50</sub>: Lethal Dose to 50% of a test population (Median Lethal Dose).</li> <li>EC<sub>50</sub>: 50% of maximal Effective Concentration.</li> <li>PBT: Persistent, Bioaccumulative and Toxic substance.</li> <li>vPvB: Very Persistent and Very Bioaccumulative.</li> </ul>
Key literature references and sources for data	REACH dossier information. Source: European Chemicals Agency, http://echa.europa.eu/
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-135
Revision comments	This is the first issue.
Revision date	07/01/2020
Revision	01
SDS number	9103

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### British Gypsum

Head Office, East Leake, Loughborough, Leicestershire, LE12 6HX T: 0115 945 1000

british-gypsum.com