SAFETY DATA SHEET
BAL SINGLE PART FLEXIBLE GREY

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

1.1. Product identifier
Product name BAL SINGLE PART FLEXIBLE GREY

1.2. Relevant identified uses of the substance or mixture and uses advised against
Identified uses Cement based adhesive.
Uses advised against No specific uses advised against are identified.

1.3. Details of the supplier of the safety data sheet
Supplier Building Adhesives Ltd
Longton Road,
Trentham,
Stoke on Trent
ST4 8JB
01782 591100
Contact person sdsreply@building-adhesives.com

1.4. Emergency telephone number
Emergency telephone UK and ROI:- 01865 407 333 (available 24/7/365) ROI:- +353 (0)1 809 2166 (available 8am-10pm, 7 days)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
Classification (EC 1272/2008)
Physical hazards Not Classified
Health hazards Skin Irrit. 2 - H315 Eye Dam. 1 - H318 Skin Sens. 1 - H317 STOT SE 3 - H335
Environmental hazards Not Classified

Human health When the cement based powder is mixed with water or admixture, a strongly alkaline paste is produced. Cement based products may, until set, cause both irritant and allergic contact dermatitis. Irritant contact dermatitis is due to a combination of the wetness, alkalinity and abrasiveness of the constituent materials. Allergic contact dermatitis is caused mainly by the sensitivity of the individual's skin to hexavalent chromium salts. Corrosive. Prolonged contact causes serious eye and tissue damage.

Environmental The product is not expected to be hazardous to the environment.

2.2. Label elements
BAL SINGLE PART FLEXIBLE GREY

Hazard pictograms

Signal word
Danger

Hazard statements
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H335 May cause respiratory irritation.

Precautionary statements
P102 Keep out of reach of children.
P261 Avoid breathing dust.
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.
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 local regulations.

Contains
ORDINARY PORTLAND CEMENT

2.3. Other hazards
This product does not contain any substances classified as PBT or vPvB.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>ORDINARY PORTLAND CEMENT</th>
<th>30-60%</th>
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<tbody>
<tr>
<td>CAS number: 65997-15-1</td>
<td>EC number: 266-043-4</td>
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Classification
Skin Irrit. 2 - H315
Eye Dam. 1 - H318
Skin Sens. 1 - H317
STOT SE 3 - H335

<table>
<thead>
<tr>
<th>CALCIUM FORMATE</th>
<th>&lt;1%</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS number: 544-17-2</td>
<td>EC number: 208-863-7</td>
</tr>
</tbody>
</table>

Classification
Eye Dam. 1 - H318

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

Composition comments
This product contains a reducing agent to ensure that the CrVI content of the cement in the product remains below 2ppm during the defined shelf life of the product.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Consult a physician for specific advice.

Inhalation
Move affected person to fresh air at once. Rinse nose and mouth with water. Get medical attention if any discomfort continues.

Ingestion
Never give anything by mouth to an unconscious person. Do not induce vomiting. Rinse mouth thoroughly with water. Get medical attention immediately.
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Skin contact
Remove affected person from source of contamination. Remove contaminated clothing. Wash skin thoroughly with soap and water. Get medical attention if irritation persists after washing.

Eye contact
Remove affected person from source of contamination. Do not rub eye. Remove any contact lenses and open eyelids wide apart. Continue to rinse for at least 15 minutes. Get medical attention immediately. Continue to rinse.

4.2. Most important symptoms and effects, both acute and delayed
Inhalation
Frequent inhalation of dust over a long period of time increases the risk of developing lung diseases.

Ingestion
May cause chemical burns in mouth and throat.

Skin contact
May cause serious chemical burns to the skin.

Eye contact
May cause severe eye irritation. May cause blurred vision and serious eye damage.

4.3. Indication of any immediate medical attention and special treatment needed
Notes for the doctor
No specific recommendations. If in doubt, get medical attention promptly.

SECTION 5: Firefighting measures

5.1. Extinguishing media
Suitable extinguishing media
The product is not flammable. Use fire-extinguishing media suitable for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
Specific hazards
Protection against nuisance dust must be used when the airborne concentration exceeds 10 mg/m3. No unusual fire or explosion hazards noted.

Hazardous combustion products
Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapours. Oxides of carbon.

5.3. Advice for firefighters
Protective actions during firefighting
No specific firefighting precautions known.

Special protective equipment for firefighters
Wear chemical protective suit.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Personal precautions
Wear protective clothing as described in Section 8 of this safety data sheet.

6.2. Environmental precautions
Environmental precautions
Do not discharge into drains or watercourses or onto the ground.

6.3. Methods and material for containment and cleaning up
Methods for cleaning up
Avoid contact with skin or inhalation of spillage, dust or vapour. Dampen spillage with water. Absorb in vermiculite, dry sand or earth and place into containers. Avoid the spillage or runoff entering drains, sewers or watercourses. Collect and place in suitable waste disposal containers and seal securely. Label the containers containing waste and contaminated materials and remove from the area as soon as possible. Flush contaminated area with plenty of water.

6.4. Reference to other sections
Reference to other sections
Wear protective clothing as described in Section 8 of this safety data sheet.
SECTION 7: Handling and storage

7.1. Precautions for safe handling

Usage precautions
Avoid spilling. Avoid contact with skin and eyes. Provide adequate ventilation. Avoid handling which leads to dust formation.

7.2. Conditions for safe storage, including any incompatibilities

Storage precautions
Store in tightly-closed, original container in a dry, cool and well-ventilated place. Keep only in the original container.

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

ORDINARY PORTLAND CEMENT

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

WEL = Workplace Exposure Limit

Ingredient comments

WEL = Workplace Exposure Limits

CALCIUM FORMATE (CAS: 544-17-2)

DNEL

Workers - Dermal; Short term systemic effects: 4780 mg/kg/day
Workers - Inhalation: 337 mg/m³
Workers - Dermal; Short term local effects: 16.7 mg/cm²
General population - Dermal; Short term systemic effects: 2390 mg/kg/day
General population - Inhalation: 83.2 mg/m³
General population - Dermal; Short term local effects: 8.3 mg/cm²
General population - Oral: 23.9 mg/kg/day

8.2. Exposure controls

Protective equipment

Appropriate engineering controls
Provide adequate ventilation. Avoid inhalation of vapours. Observe any occupational exposure limits for the product or ingredients.

Eye/face protection
Wear chemical splash goggles. Personal protective equipment for eye and face protection should comply with European Standard EN166.

Hand protection
Gloves made from the following material may provide suitable chemical protection: Nitrile rubber. The selected gloves should have a breakthrough time of at least >8 hours. 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.

Other skin and body protection
Wear appropriate clothing to prevent any possibility of skin contact.

Hygiene measures
Provide eyewash station. Do not smoke in work area. Wash at the end of each work shift and before eating, smoking and using the toilet. Promptly remove any clothing that becomes contaminated. Do not eat, drink or smoke when using this product.
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**Respiratory protection**
If ventilation is inadequate, suitable respiratory protection must be worn. Use respiratory equipment with particle filter type P2.

**Thermal hazards**
Not applicable.

**Environmental exposure controls**
Avoid release to the environment.

## SECTION 9: Physical and chemical properties

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

- **Appearance**: Dusty powder.
- **Colour**: Grey.
- **pH**: pH (concentrated solution): 12-13
- **Solubility**: Slightly soluble in water.

### 9.2. Other information

Other information: Not applicable.

## SECTION 10: Stability and reactivity

### 10.1. Reactivity

**Reactivity**: There are no known reactivity hazards associated with this product.

### 10.2. Chemical stability

**Stability**: Stable at normal ambient temperatures.

### 10.3. Possibility of hazardous reactions

**Possibility of hazardous reactions**: Not applicable.

### 10.4. Conditions to avoid

**Conditions to avoid**: Avoid contact with acids. Water, moisture.

### 10.5. Incompatible materials

**Materials to avoid**: Strong acids. Aluminium powder.

### 10.6. Hazardous decomposition products

**Hazardous decomposition products**: Fire creates: Carbon monoxide (CO). Carbon dioxide (CO2).

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

- **Skin corrosion/irritation**: Severe skin irritation.
- **Extreme pH**: $\geq 11.5$
- **Serious eye damage/irritation**: Causes serious eye damage.
- **Respiratory sensitisation**: Not known.
- **Skin sensitisation**
BAL SINGLE PART FLEXIBLE GREY

Skin sensitisation
May cause sensitisation or allergic reactions in sensitive individuals.

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

Genotoxicity - in vitro
Based on available data the classification criteria are not met.

Genotoxicity - in vivo
Based on available data the classification criteria are not met.

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

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

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

Specific target organ toxicity - repeated exposure
Not classified as a specific target organ toxicant after repeated exposure.

Reproductive toxicity - fertility
Based on available data the classification criteria are not met.

Inhalation
May cause respiratory system irritation. May cause damage to mucous membranes in nose, throat, lungs and bronchial system. Harmful: danger of serious damage to health by prolonged exposure through inhalation.

Ingestion
Ingestion may cause severe irritation of the mouth, the oesophagus and the gastrointestinal tract.

Skin contact
The product contains a small amount of sensitising substance. May cause sensitisation or allergic reactions in sensitive individuals.

Eye contact
Risk of serious damage to eyes. May cause chemical eye burns.

Acute and chronic health hazards
Repeated exposure in excess of the WEL has been linked with rhinitis and coughing. Skin exposure has been linked to allergic chromium dermatitis.

SECTION 12: Ecological information

Ecotoxicity
The product may affect the acidity (pH) of water which may have hazardous effects on aquatic organisms.

12.1. Toxicity
The product is not expected to be hazardous to the environment (LC50 aquatic toxicity rating not determined). The addition of cement based product to water will, however, cause the pH to rise and may, therefore, be toxic to aquatic life in some circumstances.

12.2. Persistence and degradability
Persistence and degradability
Not relevant. After hardening, cement presents no toxicity risks. There are no data on the degradability of this product.

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

12.4. Mobility in soil
Mobility
The product is non-volatile. The product is insoluble in water and will sediment in water systems.
12.5. Results of PBT and vPvB assessment

Results of PBT and vPvB assessment Not relevant.

12.6. Other adverse effects

Other adverse effects None known.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal methods Dispose of waste to licensed waste disposal site in accordance with the requirements of the local Waste Disposal Authority. Product that contains >2ppm CrVI should be disposed of according to local legislation or should be treated with a reducing agent before use. Product that is within shelf life may be hydrated with water and disposed of according to local legislation. The hydrated product is not hazardous.

SECTION 14: Transport information

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

Road transport notes Not classified.

Rail transport notes Not classified.

Sea transport notes Not classified.

Air transport notes Not classified.

14.1. UN number
Not applicable.

14.2. UN proper shipping name
Not applicable.

14.3. Transport hazard class(es)
Not applicable.

Transport labels
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
BAL SINGLE PART FLEXIBLE GREY

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

EU legislation

Guidance
Workplace Exposure Limits EH40.

Health and environmental listings
None of the ingredients are listed.

Authorisations (Annex XIV Regulation 1907/2006)
No specific authorisations are known for this product.

Restrictions (Annex XVII Regulation 1907/2006)
No specific restrictions on use are known for this product.

15.2. Chemical safety assessment
No chemical safety assessment has been carried out.

SECTION 16: Other information

Revision comments
2

Issued by
Technical Manager

Revision date
28/04/2020

Hazard statements in full
H302 Harmful if swallowed.
H312 Harmful in contact with skin.
H315 Causes skin irritation.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H331 Toxic if inhaled.
H335 May cause respiratory irritation.

This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process. Such information is, to the best of the company’s knowledge and belief, accurate and reliable as of the date indicated. However, no warranty, guarantee or representation is made to its accuracy, reliability or completeness. It is the user’s responsibility to satisfy himself as to the suitability of such information for his own particular use.