SECTION 1 : IDENTIFICATION OF THE SUBSTANCE/ MIXTURE AND OF THE COMPANY/UNDERTAKING

1.1 Product Identifier
Product name : GLASSBOND SAUEREISEN CEMENT POWDER CEMENT POWDER N°6
REACH notes : Mixture- Substances contained in this product that are not classified as hazardous have been/will be registered for REACH at the appropriate time.

1.2 Relevant identified uses of the mixture and uses advised against.
Identified use : High temperature adhesive and sealant
Uses advised against : No other uses

1.3 Details of the supplier of the safety data sheet
Company identification: Glassbond (NW) Ltd
West Side Industrial Estate
Jackson Street
St. Helens
Merseyside WA9 3AT
United Kingdom

Telephone +44(0)1744 730334
Fax +44(0)1744 451661
Email technical@glassbond.co.uk

1.4 Emergency telephone number +44(0)1744 730334
(GMT, English spoken, Mon-Friday; 08.30-16.30)

SECTION 2 : HAZARDS IDENTIFICATION*

2.1 Classification of the mixture: calculation method
2.1.1 Regulation (EC) No. 1272/2008(CLP)
Physical/Chemical : NOT CLASSIFIED
Human health : STOT RE 2 (inhalation), Eye damage 1, Skin Irritant 2
Environmental : NOT CLASSIFIED

2.1.2 Directive 1999/45/EC(DPD) : Not available

2.2 Label elements
According to Regulation (EC) No. 1272/2008(CLP)

STOT RE 2

GHS08 GS05
Safety Data Sheet according to regulation (EC) No 1907/2006, 1272/2008(CLP) & 453/2010

Date Revised : 31.10.2018
Revision : 03
Product : CEMENT POWDER NO 6

Signal Word(s) Danger

Hazard Statement(s)

- H373: Causes damage to lungs through prolonged or repeated exposure via inhalation
- H315: Causes skin irritation.
- H318: Causes serious eye damage

Precautionary Statement(s)

- P260: Do not breathe dust
- P280: Wear protective gloves /protective clothing/eye protection/face protection
- P305: IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing
- P308: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice
- P310: Immediately call a POISON CENTRE or doctor

2.3 Other Hazards

- PBT: This mixture contains no substances considered as PBT
- vPvB: This mixture contains no substances considered as vPvB

2.4 Additional information

For full text of H/P phrases see section 16 if not written out in full above.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS*

3.1 Substances . (This product is a mixture according to EU legislation.)

3.2 Mixture of inorganic powders

<table>
<thead>
<tr>
<th>Hazardous ingredient</th>
<th>% w/w</th>
<th>CAS N°</th>
<th>EC N°</th>
<th>REACH N°</th>
<th>CPL EC 1272/2008</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica powder</td>
<td>40-50</td>
<td>14808-60-7</td>
<td>238-878-4</td>
<td>Exempted</td>
<td>H373: STOT RE 2</td>
</tr>
<tr>
<td>Sodium silicate</td>
<td>10-15</td>
<td>1344-09-8</td>
<td>215-687-4</td>
<td>01-2119448725-31</td>
<td>H335 : STOT SE 3 (inhalation)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H318: Eye damage 1</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>H315: Skin Irritant 2</td>
</tr>
</tbody>
</table>

3.3 Additional information

For full text of H/P phrases see section 16 if not written out in full above.
SECTION 4: FIRST AID MEASURES

4.1 Description of first aid measures

General advice
Take off contaminated clothing and wash before re-use (P362), take care not to contaminate unaffected areas.

Inhalation
IF INHALED remove victim to fresh air and keep at rest in a position comfortable for breathing. (P304+P340)

Eyes
IF IN EYES rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. (P305 + P351 + P338)
If eye irritation persists: Get medical attention (P337+P313)

Skin
IF ON SKIN wash exposed areas thoroughly after handling (P264)
If skin irritation or rash occurs get medical attention (P332+P313)

Ingestion
IF SWALLOWED: Rinse mouth (P301+P330)
Obtain medical attention immediately, show this safety data sheet.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
Eye contact- May cause serious eye damage. (highly alkaline)

Risks
No information available

4.3 Indication of any immediate medical attention and special treatment needed

Treatment
Treat according to symptoms (decontamination, vital functions), no known specific antidote.

SECTION 5: FIRE FIGHTING MEASURES

5.1 Extinguishing media:

Suitable: CO2 or dry chemical spray, water spray may help to reduce the temperature and extinguish flames for surrounding materials.

Unsuitable: High pressure water jet.

5.2 Special hazards arising from the mixture

The powder will not burn but the packaging is combustible.

5.3 Advice for fire fighters

Use full protective clothing and self-contained breathing apparatus.

Further information: The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing media must be disposed of in accordance with official regulation.

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions, protective equipment and emergency procedures

Use personal protective clothing.

6.2 Environmental Precautions

Prevent contamination of soil, drains and surface waters. Do not discharge contaminated water/ fire-fighting water into drains/ surface water/ groundwater.

6.3 Methods and material for containment and cleaning up

Collect spillage by sweeping or industrial vacuum cleaner. keep in suitable closed container for disposal

6.4 Reference to other sections

For personal protection see section 8 and disposal section 13
SECTION 7: HANDLING AND STORAGE

7.1 Precautions for safe handling
Advice on safe handling
Avoid the formation and deposition of dust. Use only outdoors or in a well ventilated area (P271). For PPE see section 8. Wash contaminated clothing before reuse (P363).

Advice on protection against fire and explosion
Normal measures for preventive fire protection. Take precautionary measures against static discharge if using plastic packaging.

7.2 Conditions for safe storage, including any incompatibilities
Keep containers tightly closed. Store locked up (P450), under cover, in a well ventilated, cool, dry place and away from direct sunlight or heat. Protect from temperatures below : Not applicable. Protect from temperatures above : 40 °C. Suitable storage materials : Original containers. Higher temperatures and humidity will reduce the shelf life of the product and may cause the powder to form lumps. The powder will also be difficult to mix into a paste. Under normal conditions (21ºC) a shelf life of 12 months or more is possible.

7.3 Specific end use(s)
As per section 1.2

SECTION 8: EXPOSURE CONTROLS/PERSOANL PROTECTION

8.1 Control parameters

8.1.1 Occupational Exposure Limits: OEL (Occupational Exposure Standard OES)

<table>
<thead>
<tr>
<th>Substance</th>
<th>TWA mg/m³</th>
<th>ppm</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica crystalline</td>
<td></td>
<td></td>
<td>(EH40 UK) OES 8 hr</td>
</tr>
<tr>
<td>TWA</td>
<td>0.3</td>
<td></td>
<td>(EH40 UK)</td>
</tr>
<tr>
<td>Silicon silicate</td>
<td></td>
<td></td>
<td>(ACIGH)</td>
</tr>
<tr>
<td>STEL</td>
<td>2.0</td>
<td></td>
<td>recommended</td>
</tr>
</tbody>
</table>

8.1.2 Biological limit value
Not available

8.1.3 PNECs and DNELs
Not available

8.2 Exposure Controls

8.2.1 Appropriate engineering controls: Effective exhaust ventilation system

8.2.2 Personal Protective Equipment:

Eye/face Protection
Tightly fitting safety goggles (e.g. EN166)

Skin Protection/Hand Protection
Gloves: Chemical resistant gloves (e.g. EN374) Butyl rubber: 0.7 mm coating thickness. Nitrile rubber: 0.4 mm coating thickness. Check with PPE manufacturer. Replace immediately if signs of degradation are observed. Wear closed work clothing.

Other Respiratory Protection
In the case of insufficient ventilation or severe dusts Cartridge: e.g. EN143 Type P-S (check with PPE manufacturer)

Hygiene measures
General industrial hygiene practice

8.2.3 Environmental exposure controls
Local exhaust ventilation and take precautionary measures against static discharge.
## 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><strong>APPEARANCE</strong></td>
<td>Fine powder</td>
</tr>
<tr>
<td><strong>ODOUR</strong></td>
<td>None</td>
</tr>
<tr>
<td><strong>pH VALUE</strong></td>
<td>11-12</td>
</tr>
<tr>
<td><strong>MELTING POINT/FREEZING PT</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>INITIAL BOILING POINT/RANGE</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>FLASHPOINT °C</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>EVAPORATION RATE</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>FLAMMABILITY (SOLID/GAS)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>UPPER EXPLOSIVE LIMIT</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>LOWER EXPLOSIVE LIMIT</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>VAPOUR PRESSURE</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>VAPOUR DENSITY (AIR=1)</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>COLOUR</strong></td>
<td>Cream</td>
</tr>
<tr>
<td><strong>ODOUR THRESHOLD ppm</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>RELATIVE DENSITY</strong></td>
<td>2.7 g/ml</td>
</tr>
<tr>
<td><strong>SOLUBILITY IN WATER @ 20°C</strong></td>
<td>&lt;15 g/100g</td>
</tr>
<tr>
<td><strong>PARTITION COEFFICIENT</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>(n-octanol/water)</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>AUTO IGNITION TEMPERATURE</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>DECOMPOSITION TEMPERATURE °C</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>VISCOSITY mPa.s @ 25°C</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>EXPLOSIVE PROPERTIES</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>OXIDIZING PROPERTIES</strong></td>
<td>Not oxidising</td>
</tr>
</tbody>
</table>

### 9.2 Other information

## SECTION 10: STABILITY AND REACTIVITY

### 10.1 Reactivity

Stable under normal conditions.

### 10.2 Chemical Stability

Stable under recommended storage and handling conditions.

### 10.3 Possibility of Hazardous reactions

No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to Avoid

No decomposition if stored and applied as directed.

### 10.5 Incompatible materials

Incompatible with strong acids, alkaline materials, iron containing materials. Aqueous solutions will react with aluminium, zinc, tin and their alloys evolving hydrogen gas which can form an explosive mixture with air. Can react violently if in contact with acids. Can react with sugar residues to form carbon monoxide.

### 10.6 Hazardous Decomposition Products

No hazardous decomposition products if stored and handled as prescribed/ indicated.

## SECTION 11: TOXICOLOGICAL INFORMATION

### 11.1 Information on toxicological effects of the mixture

#### Acute toxicity

Contains components that are hazardous by the following routes: skin, eye, inhalation.

<table>
<thead>
<tr>
<th>Route</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD₅₀ ORAL TOXICITY IN RATS</td>
<td>3400 mg/kg</td>
</tr>
<tr>
<td>LD₅₀ DERMAL TOXICITY RABBITS</td>
<td>&gt;5000 mg/kg</td>
</tr>
<tr>
<td>LC₅₀ INHL TOXICITY IN RATS</td>
<td>&gt;2.06 g/m³</td>
</tr>
<tr>
<td>LD₅₀ DERMAL TOXICITY RABBITS</td>
<td>mg/kg</td>
</tr>
<tr>
<td>LC₅₀ ORAL TOXICITY IN RATS</td>
<td>mg/kg</td>
</tr>
<tr>
<td>LD₅₀ DERMAL TOXICITY RATS</td>
<td>mg/kg</td>
</tr>
</tbody>
</table>

#### Skin corrosion/ irritation

Irritating

#### Serious eye damage / irritation

Damaging

#### Respiratory or skin sensitisation

Not classified

#### Germ cell mutagenicity

Not classified

#### Carcinogenicity

Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis caused by deposition in the lungs of fine respirable particles of crystalline silica.
Reproductive toxicity: Not classified

Specific Target Organ Toxicity (Repeated Exposure): STOT RE2

Specific Target Organ Toxicity (Single Exposure): Not classified

Aspiration hazard: Not classified

11.2 Other information

In 1997, IARC (International Agency for Research on Cancer) concluded that crystalline silica inhaled from occupational sources can cause lung cancer in humans.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LL(_{50})</td>
<td>Fish</td>
<td>(96 hr)</td>
<td>1108 mg/l</td>
</tr>
<tr>
<td>EC(_{50})</td>
<td>Invertibrates</td>
<td>(48 hr)</td>
<td>1700 mg/l</td>
</tr>
<tr>
<td>EL(_{50})</td>
<td>Algae</td>
<td>(72hr)</td>
<td>Not available</td>
</tr>
</tbody>
</table>

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>LL(_{50})</td>
<td>Fish</td>
<td>(96 hr)</td>
</tr>
<tr>
<td>EC(_{50})</td>
<td>Invertibrates</td>
<td>(48 hr)</td>
</tr>
<tr>
<td>EL(_{50})</td>
<td>Algae</td>
<td>(72hr)</td>
</tr>
</tbody>
</table>

Microorganisms/ effect upon activated sludge
<p>| | | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>EC(_{50})</td>
<td>Bacteria</td>
<td>(3.0 hr)</td>
<td>mg/l Activated sludge, domestic</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability

Not biodegradable

12.3Bioaccumulative potential

Not available

12.4 Mobility in soil

Sinks in water. A proportion (<15%) is water soluble. If the product enters soil, it will be mobile and may contaminate groundwater.

12.5 Results of PBT and vPvB assessment

PBT: This mixture contains no substances considered as PBT

vPvB: This mixture contains no substances considered as vPvB

12.6 Other adverse effects

The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations. Do not release untreated into natural waters. This product has not been tested. The statement has been derived from products of a similar structure and composition.
SECTION 13 : DISPOSAL CONSIDERATION

13.1 Waste treatment methods

Dispose of contents/container according to the end user disposal procedure (P501). Dispose by landfill via a licensed waste disposal contractor in accordance with local and national regulations.

Contaminated packaging should be emptied as far as possible, they can then be recycled after being thoroughly cleaned by a licensed contractor. Labels must not be removed from containers until they have been cleaned. Packaging materials that are not contaminated should be treated as household waste or as recycling material.

13.2 Additional information

The UK Environmental Protection (Duty of Care) regulations (EP) and amendments should be noted (United Kingdom)

SECTION 14 - TRANSPORT INFORMATION

14.1 UN number
ADR
RID
IMDG
IATA
ADN

14.2 Proper shipping name
ADR
RID
IMDG
IATA
ADN

14.3 Transport Hazard Class
ADR
RID
IMDG
IATA
ADN

14.4 Packing Group
ADR
RID
IMDG
IATA
ADN

14.5 Environmental hazards
ADR
RID
IMDG
IATA
ADN

14.6 Special Precautions for user
Not classified as dangerous in the meaning of transport regulations

14.7 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 mixture

EU Legislation


15.2 Chemical Safety Assessment

Exposure scenarios are not required for this mixture because it is not classified as dangerous according to Directive 67/548/EEC and assessed to be not PBT/vPvB. No risk management measures as defined by REACH have been identified.

SECTION 16 : OTHER INFORMATION *

* SECTIONS REVISED 7, 10  Supercedes date 10.08.2017

The Safety Data Sheets have been revised throughout in accordance with CLP/GHS requirements.

Legend

PBT Persistent, Bioaccumulative and Toxic

vPvB very Persistent and very Bioaccumulative

Data sources Supplier information

Other hazard phrases listed in this MSDS

H335 May cause respiratory irritation

Training advice General industrial hygiene practice. Do not eat, drink or smoke when using this product (P270)

Further information

This information relates only to the specific material designated and 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 it’s accuracy, reliability or completeness and without acceptance of liability for loss or damage attributable to reliance thereon as conditions of use lie outside our control. Users should always carry tests to establish the suitability of any products for their intended applications. No statements shall be incorporated in any contract unless expressly agreed in writing or construed as recommending the use of any product in conflict of any patent. All goods are supplied subject to Glassbond Ltd’s General Conditions of Sale.