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

1.1 Product Identifier
   Product name: ELECTRICAL CEMENT POWDER No.315
   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)

   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
**SIGNAL WORD (S)**  WARNING

**HAZARD STATEMENT(S)**  
H373 May cause damage to lungs through prolonged or repeated exposure via inhalation

**PRECAUTIONARY STATEMENT(S)**  
P260 Do not breathe dust
P314 Get medical attention if unwell

### 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</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica powder</td>
<td>35-45</td>
<td>14808-60-7</td>
<td>238-878-4</td>
<td>Exempted Annex v 7</td>
<td>H373: STOT RE 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 irritation

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/PERSONAL PROTECTION

8.1 **Control parameters**

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

<table>
<thead>
<tr>
<th></th>
<th>mg/m³</th>
<th>ppm</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica crystalline</td>
<td>TWA</td>
<td>-</td>
<td>inhalable (EH40 UK) OES 8 hr</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>0.3</td>
<td>respirable (EH40 UK)</td>
</tr>
<tr>
<td>Silica crystalline</td>
<td>TLV-TWA</td>
<td>0.1</td>
<td>respirable (ACIGH)</td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>-</td>
<td></td>
</tr>
<tr>
<td></td>
<td>STEL</td>
<td>-</td>
<td></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**

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.

**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>Appearance</td>
<td>Fine powder</td>
</tr>
<tr>
<td>Odour</td>
<td>None</td>
</tr>
<tr>
<td>pH Value</td>
<td>5-8</td>
</tr>
<tr>
<td>Melting Point/Freezing Point</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Initial Boiling Point/Range</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flashpoint °C</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Flammability (solid/gas)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Upper Explosive Limit</td>
<td>Not available</td>
</tr>
<tr>
<td>Lower Explosive Limit</td>
<td>Not Available</td>
</tr>
<tr>
<td>Vapour Pressure</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Vapour Density (air=1)</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Colour</td>
<td>Cream</td>
</tr>
<tr>
<td>Odour Threshold ppm</td>
<td>Not Available</td>
</tr>
<tr>
<td>Relative Density</td>
<td>2.7 g/ml</td>
</tr>
<tr>
<td>Solubility in Water @ 20°C</td>
<td>~23 g/100g</td>
</tr>
<tr>
<td>Partition Coefficient</td>
<td>Not available</td>
</tr>
<tr>
<td>Decomposition Temperature °C</td>
<td>Not available</td>
</tr>
<tr>
<td>Auto Ignition Temperature</td>
<td>Not available</td>
</tr>
<tr>
<td>Viscosity mPa.s @ 25°C</td>
<td>Not applicable</td>
</tr>
<tr>
<td>Explosive Properties</td>
<td>Not available</td>
</tr>
<tr>
<td>Oxidising Properties</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 alkaline materials, iron containing materials.

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: inhalation.
  - $\text{LD}_{50}$ Oral Toxicity in Rats - mg/kg
  - $\text{LD}_{50}$ Dermal Toxicity in Rabbits - mg/kg
  - $\text{LC}_{50}$ Inhal Toxicity in Rats - g/m$^3$
  - $\text{LD}_{50}$ Dermal Toxicity in Rabbits - mg/kg
  - $\text{LC}_{50}$ Oral Toxicity in Rats - mg/kg
  - $\text{LD}_{50}$ Dermal Toxicity in Rats - mg/kg

**Skin corrosion/irritation**
- Irritating

**Serious eye damage / irritation**
- Irritating

**Respiratory or skin sensitisation**
- Not classified

**Germ cell mutagenicity**
- Prolonged and/or massive exposure to respirable crystalline silica-containing dust may cause silicosis, a nodular pulmonary fibrosis cause by deposition in the lungs of fine respirable particles of crystalline silica.

**Carcinogenicity**
- Not classified
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

<table>
<thead>
<tr>
<th>Test</th>
<th>Species</th>
<th>Concentration (mg/l)</th>
<th>Time (h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL₅₀ Fish</td>
<td>Brachydanio rerio</td>
<td>Not available</td>
<td>(96 hr)</td>
</tr>
<tr>
<td>EC₅₀ Invertibrates</td>
<td>Daphnia magna</td>
<td>mg/l</td>
<td>(48 hr)</td>
</tr>
<tr>
<td>EL₅₀ Algae</td>
<td>Selenastrum capricornutum</td>
<td>mg/l</td>
<td>(72 hr)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Test</th>
<th>Species</th>
<th>Concentration (mg/l)</th>
<th>Time (h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL₅₀ Fish</td>
<td>Lepomis macrochirus</td>
<td>mg/l</td>
<td>(96 hr)</td>
</tr>
<tr>
<td>EC₅₀ Invertibrates</td>
<td>Daphnia magna</td>
<td>mg/l</td>
<td>(48 hr)</td>
</tr>
<tr>
<td>EL₅₀ Algae</td>
<td>Selenastrum capricornutum</td>
<td>mg/l</td>
<td>(72 hr)</td>
</tr>
</tbody>
</table>

Micro organisms/ effect upon activated sludge

<table>
<thead>
<tr>
<th>Test</th>
<th>Species</th>
<th>Concentration (mg/l)</th>
<th>Time (h)</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC₅₀ Bacteria</td>
<td>Activated sludge, domestic</td>
<td>Not biodegradable</td>
<td>(3.0 hr)</td>
</tr>
</tbody>
</table>

12.2 Persistence and degradability
Not biodegradable

12.3 Bioaccumulative potential
Not available

12.4 Mobility in soil
Sinks in water. A proportion (~23%) 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**

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
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<td>NOT CLASSIFIED</td>
<td>NOT CLASSIFIED</td>
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</tbody>
</table>

**14.2 Proper shipping name**

<table>
<thead>
<tr>
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<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
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</thead>
<tbody>
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<td>NOT CLASSIFIED</td>
<td>NOT CLASSIFIED</td>
<td>NOT CLASSIFIED</td>
<td>NOT CLASSIFIED</td>
</tr>
</tbody>
</table>

**14.3 Transport Hazard Class**

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
</tr>
</thead>
<tbody>
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<td>NOT CLASSIFIED</td>
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</tr>
</tbody>
</table>

**14.4 Packing Group**

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
</tr>
</thead>
<tbody>
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<td>NOT CLASSIFIED</td>
<td>NOT CLASSIFIED</td>
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</tbody>
</table>

**14.5 Environmental hazards**

<table>
<thead>
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<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
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</thead>
<tbody>
<tr>
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<td>NOT CLASSIFIED</td>
<td>NOT CLASSIFIED</td>
<td>NOT CLASSIFIED</td>
<td>NOT CLASSIFIED</td>
</tr>
</tbody>
</table>

**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

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Date Revised: 31.10.2018  
Revision: 08  
Product: Electrical Cement Powder N°315

Print date: 31/10/2018  
7/8  
SDS—Sauereisen N°315 October 2018
SECTION 15: REGULATORY INFORMATION

15.1 Safety, health and environmental regulations/legislation specific for the mixture
EU Legislation

Employment restrictions: Observe employment restrictions for young people, for child bearing mothers/ nursing and for women of child-bearing age.

15.2 Chemical Safety Assessment
Assessed to be not PBT/vPvB.

SECTION 16: OTHER INFORMATION*

* SECTIONS REVISED 7, 10  Supercedes date 17.08.2017
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 and risk phrases listed in this MSDS

H373 May cause damage to lungs through prolonged or repeated exposure via inhalation

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.