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

1.1 Product Identifier
Product name: GLASSBOND SAUREISEN INSA-LUTE ADHESIVE CEMENT NO P1
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
SIGNAL WORD (s) | Danger
---|---
HAZARD STATEMENT(s) | H373 Causes damage to lungs through prolonged or repeated exposure via inhalation  
| H315 Causes skin irritation. Cat 2  
| H318 Causes serious eye damage Cat 1
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  
| 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

| Hazardous ingredient | % w/w | CAS N° | EC N° | REACH N° | CPL
|---|---|---|---|---|---
| Silica powder | >70 | 14808-60-7 | 238-878-4 | Exempted | H373: STOT RE 2
| Sodium silicate | <20 | 1344-09-8 | 215-687-4 | 01-2119448725-31 | H335: STOT SE 3 (inhalation)  
| | | | | | H318: Eye damage 1  
| | | | | | H315: Skin Irritant 2

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: 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>Substance</th>
<th>OEL (mg/m³, ppm)</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>Silica crystalline</td>
<td>TWA 0.3</td>
<td>(EH40 UK) OES 8 hr</td>
</tr>
<tr>
<td></td>
<td>TLV-TWA 0.1</td>
<td>(ACIGH)</td>
</tr>
<tr>
<td>Sodium silicate</td>
<td>TWA 2.0</td>
<td>recommended</td>
</tr>
</tbody>
</table>

8.1.2 Biological limit value
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: 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.
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>12</td>
</tr>
<tr>
<td><strong>Melting point/freezing point</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 Available</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>Solubility in water @ 20°C</strong></td>
<td>&lt;15 mg/100g</td>
</tr>
<tr>
<td><strong>Partition coefficient</strong></td>
<td>n-octanol/water</td>
</tr>
<tr>
<td><strong>Auto ignition temperature</strong></td>
<td>Not Available</td>
</tr>
<tr>
<td><strong>Decomposition temperature °C</strong></td>
<td>Not available</td>
</tr>
<tr>
<td><strong>Viscosity mPa.s @ 25°C</strong></td>
<td>Not applicable</td>
</tr>
<tr>
<td><strong>Oxidising properties</strong></td>
<td>Not oxidising</td>
</tr>
</tbody>
</table>

9.2 Other information

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.

11.1 Information on toxicological effects of the mixture

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

| LD50 ORAL TOXICITY IN RATS | 3400 mg/kg | Sodium silicate |
| LD50 DERMAL TOXICITY RABBITS | >5000 mg/kg | Sodium silicate |
| LC50 INHL TOXICITY IN RATS | >2.06 g/m³ | Sodium silicate |
| LD50 DERMAL TOXICITY RABBITS | mg/kg | |
| LC50 ORAL TOXICITY IN RATS | mg/kg | |
| LD50 DERMAL TOXICITY RATS | mg/kg | |

**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 cause 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 sodium silicate

<table>
<thead>
<tr>
<th></th>
<th>Toxicity</th>
<th></th>
<th>mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>LL₅₀</td>
<td>Fish</td>
<td>(96 hr)</td>
<td>1108</td>
</tr>
<tr>
<td>EC₅₀</td>
<td>Invertibrates</td>
<td>(48 hr)</td>
<td>1700</td>
</tr>
<tr>
<td>EL₅₀</td>
<td>Algae</td>
<td>(72 hr)</td>
<td>Not available</td>
</tr>
<tr>
<td>LL₅₀</td>
<td>Fish</td>
<td>(96 hr)</td>
<td>mg/l</td>
</tr>
<tr>
<td>EC₅₀</td>
<td>Invertibrates</td>
<td>(48 hr)</td>
<td>mg/l</td>
</tr>
<tr>
<td>EL₅₀</td>
<td>Algae</td>
<td>(72 hr)</td>
<td>mg/l</td>
</tr>
</tbody>
</table>

Micro organisms/ effect upon activated sludge

<table>
<thead>
<tr>
<th></th>
<th>Toxicity</th>
<th></th>
<th>mg/l</th>
</tr>
</thead>
<tbody>
<tr>
<td>EC₅₀</td>
<td>Bacteria</td>
<td>(3.0 hr)</td>
<td>Activated sludge, domestic</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 (<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

<table>
<thead>
<tr>
<th>ADR</th>
<th>RID</th>
<th>IMDG</th>
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<tbody>
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</table>

14.2 Proper shipping name

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<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
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</tr>
</thead>
<tbody>
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</table>

14.3 Transport Hazard Class

<table>
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<th>RID</th>
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<th>ADN</th>
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</thead>
<tbody>
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<td></td>
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<td></td>
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</table>

14.4 Packing Group

<table>
<thead>
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<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
</tr>
</thead>
<tbody>
<tr>
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<td></td>
<td></td>
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14.5 Environmental hazards

<table>
<thead>
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<th>RID</th>
<th>IMDG</th>
<th>IATA</th>
<th>ADN</th>
</tr>
</thead>
<tbody>
<tr>
<td>NOT CLASSIFIED</td>
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</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
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 05.09.2018

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
H335 May cause respiratory irritation

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

Manual handling

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 expressively 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.