

Safety Data Sheet according to regulation (EC) N°1907/2006, 1272/2008(CLP) & 453/2010
 Date Revised : 11/07/2023 Revision : 18
 Product : CEMENT N°31

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

1.1 Product Identifier

Product name : **GLASSBOND SAUEREISEN CEMENT N°31**
 REACH notes : Mixture- Substances contained in this product that are not classified as hazardous have been/will be registered for UK/EU 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
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 St. Helens
 Merseyside WA9 3AT
 United Kingdom

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 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)
 Acute toxicity 4 (oral, skin, inhalation)
 Environmental NOT CLASSIFIED

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



GHS08



GHS07

STOT RE 2 (inhalation),
 Acute toxicity Oral 4
 Acute toxicity Skin 4
 Acute toxicity Inhalation 4

| | | | |
|----------------------------|------|--|-------------|
| SIGNAL WORD (S) | | Warning | |
| HAZARD STATEMENT(S) | H373 | Causes damage to lungs through prolonged or repeated exposure via inhalation | |
| | H302 | Harmful if swallowed | Acute Tox 4 |
| | H312 | Harmful in contact with skin | Acute Tox 4 |
| | H332 | Harmful if inhaled | Acute Tox 4 |
| PRECAUTIONARY STATEMENT(S) | P260 | Do not breathe dust | |
| | P280 | Wear protective gloves /protective clothing/eye protection/face protection | |
| | P312 | Immediately call a POISON CENTRE or doctor if you feel 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

| Hazardous ingredient | % w/w | CAS N° | EC N° | REACH N° | CPL EC 1272/2008 |
|------------------------|-------|------------|-----------|-----------------------|--|
| Silica | >70 | 14808-60-7 | 238-878-4 | Exempted | H373: STOT RE 2 |
| Sodium silico fluoride | 10-20 | 16893-85-9 | 240-934-8 | 01-2119519245-43-0002 | H331: Acute Tox 3 (inhalation) H311: Acute Tox 3 (dermal) H301: Acute Tox 3 (oral) |
| | | | | | |
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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

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|----------------|---|
| 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 | Wash hands thoroughly after handling (P264) If skin irritation or rash occurs get medical attention (P333+P313) |
| Ingestion | IF SWALLOWED: Rinse mouth (P330). Call a POISON CENTRE or doctor if you feel unwell (P301+P312). Show this safety data sheet. |

4.2 Most important symptoms and effects, both acute and delayed

| | |
|----------|--|
| Symptoms | Eye contact- May cause temporary eye irritation. |
| Risks | No information available |

4.3 Indication of any immediate medical attention and special treatment needed

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|-----------|---|
| 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. When heated to decomposition it releases toxic and corrosive fumes of hydrogen fluoride.

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

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|---|---|
| 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. Take off contaminated clothing and wash before re-use (P362). |
| 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

Store in a well-ventilated place. Keep containers tightly closed. (P403+P233) Keep cool and dry, 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 (21°C) 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)

| | | mg/m ³ | ppm | Note |
|-----------------------|---------|-------------------|------------|--------------------|
| Silica crystalline | TWA | - | inhalable | (EH40 UK) OES 8 hr |
| | TWA | 0.3 | respirable | (EH40 UK) |
| Silica crystalline | TLV-TWA | 0.1 | respirable | (ACIGH) |
| | STEL | - | | (EH40 UK) |
| Sodium silicofluoride | TWA | 2.5 | | OSHA |
| | TWA | | | |
| | STEL | - | | |

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.

Other 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

| | | | |
|-----------------------------|----------------|------------------------------|----------------|
| APPEARANCE | Fine powder | COLOUR | Cream |
| ODOUR | None | ODOUR THRESHOLD ppm | Not Available |
| pH VALUE | 11.5 | RELATIVE DENSITY | 2.7 g/ml |
| MELTING POINT/FREEZING PT | Not applicable | SOLUBILITY IN WATER @ 20°C | 14g/100g |
| INITIAL BOILING POINT/RANGE | Not applicable | PARTITION COEFFICIENT | Not available |
| FLASHPOINT °C | Not applicable | (n-octanol/water) | |
| EVAPORATION RATE | Not applicable | AUTO IGNITION TEMPERATURE | Not available |
| FLAMMABILITY (SOLID/GAS) | Not applicable | DECOMPOSITION TEMPERATURE °C | Not available |
| UPPER EXPLOSIVE LIMIT | Not Available | VISCOSITY mPa.s @ 25°C | Not applicable |
| LOWER EXPLOSIVE LIMIT | Not Available | EXPLOSIVE PROPERTIES | Not available |
| VAPOUR PRESSURE | Not applicable | OXIDIZING PROPERTIES | Not oxidising |
| VAPOUR DENSITY (AIR=1) | Not applicable | | |

9.2 Other information

SECTION 10: STABILITY AND REACTIVITY

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|--|--|
| 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. It may react with strong mineral acids to liberate hydrogen fluoride or hydrofluoric acid which are highly toxic and corrosive. |
| 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. | | |
| LD ₅₀ ORAL TOXICITY MOUSE | 70 | mg/kg | Sodium silicofluoride |
| LD ₅₀ ORAL TOXICITY IN RATS | 125 | mg/kg | Sodium silicofluoride |
| LD ₅₀ DERMAL TOXICITY RABBITS | 500 | mg/kg | Sodium silicofluoride |
| LC ₅₀ INHL TOXICITY IN RATS | | mg/kg | |
| LD ₅₀ DERMAL TOXICITY RABBITS | | mg/kg | |
| LC ₅₀ ORAL TOXICITY IN RATS | | mg/kg | |
| LD ₅₀ DERMAL TOXICITY RATS | | mg/kg | |

| | |
|--|---|
| Skin corrosion/ irritation | May cause irritation |
| Serious eye damage/ irritation | May cause irritation |
| 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. Continuous or intermittent exposure to inorganic fluorides can lead to appreciable accumulation of fluoride in bone, and, to development of osteosclerosis and other bone changes.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Toxicity

| | | | | |
|--------------------------------|---------|------|------|----------------------------------|
| LL ₅₀ Fish | (96 hr) | | mg/l | <i>Brachydanio rerio</i> |
| EC ₅₀ Invertebrates | (48 hr) | | mg/l | <i>Daphnia magna</i> |
| EL ₅₀ Algae | (72hr) | | mg/l | <i>Selenastrum capricornutum</i> |
| LL ₅₀ Fish | (96 hr) | 37.5 | mg/l | <i>Lepomis macrochirus</i> |
| EC ₅₀ Invertebrates | (48 hr) | 35.4 | mg/l | <i>Daphnia magna</i> |
| EL ₅₀ Algae | (72hr) | 18.5 | mg/l | <i>Selenastrum capricornutum</i> |

Microorganisms/ effect upon activated sludge

| | | | |
|---------------------------|----------|------|----------------------------|
| EC ₅₀ Bacteria | (3.0 hr) | mg/l | Activated sludge, domestic |
|---------------------------|----------|------|----------------------------|

12.2 Persistence and degradability Not biodegradable

12.3 Bioaccumulative potential Not available

12.4 Mobility in soil Sinks in water. A small percentage (~14%) 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

The preparation must be disposed of by special means. 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)

Dispose of contents/ container according to the end user disposal procedure (P501)

SECTION 14: TRANSPORT INFORMATION

14.1 UN number NOT CLASSIFIED
ADR
RID
IMDG
IATA
ADN

14.2 Proper shipping name NOT CLASSIFIED
ADR
RID
IMDG
IATA
ADN

14.3 Transport Hazard Class NOT CLASSIFIED
ADR
RID
IMDG
IATA
ADN

14.4 Packing Group NOT CLASSIFIED
ADR
RID
IMDG
IATA
ADN

14.5 Environmental hazards NOT CLASSIFIED
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

Commission Regulation (EC) No 474/2014 of 8th May 2014 amending Annex XVII to Regulation (EC) No 1907/2006

Commission Regulation (EC) No 944/2013 of 2nd October 2013 (5th ATP) amending Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Waste Framework Directive 2008/98/EC

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 2 Supersedes date 13/01/2022
Removed section 2.1.2

Legend

PBT Persistent, Bioaccumulative and Toxic
vPvB very Persistent and very Bioaccumulative

Data sources Supplier information

Other hazard phrases listed in this MSDS

H301 Toxic if swallowed
H311 Toxic in contact with skin
H331 Toxic by inhalation

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 its 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.