

# Aquapanel Indoor Board

## Knauf UK & Ireland GmbH

Version No: 4.1

Safety data sheet according to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Issue Date: **24/11/2023**

Print Date: **26/04/2024**

L.REACH.GB.EN.E

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

#### 1.1. Product Identifier

|                                      |                        |
|--------------------------------------|------------------------|
| <b>Product name</b>                  | Aquapanel Indoor Board |
| <b>Chemical Name</b>                 | Not Applicable         |
| <b>Synonyms</b>                      | Not Available          |
| <b>Chemical formula</b>              | Not Applicable         |
| <b>Other means of identification</b> | Not Available          |

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

|                                 |  |
|---------------------------------|--|
| <b>Relevant identified uses</b> | Building material. Note: The panel elements are articles that do not pose any particular hazards. Hazards are possible during machining. Machines (also hand-guided tools) must always be connected to an effective exhausting system, unless other technical or organisational measures can be taken to ensure that the limit values are safely undercut. Use dust mask P2 as personal protective equipment during machining activities. Caution: During machining activities, respirable quartz dust may be released [manufacturer]. |
| <b>Uses advised against</b>     | No specific uses advised against are identified.   |

#### 1.3. Details of the manufacturer or supplier of the safety data sheet

|                                |  |
|--------------------------------|--|
| <b>Registered company name</b> | <b>Knauf UK &amp; Ireland GmbH</b>                         |
| <b>Address</b>                 | Kemsley Fields Business Park Kent ME9 8SR Great Britain    |
| <b>Telephone</b>               | 0800 521 050   |
| <b>Fax</b>                     | Not Available  |
| <b>Website</b>                 | <a href="http://www.knauf.com">www.knauf.com</a>           |
| <b>Email</b>                   | <a href="mailto:cservice@knauf.com">cservice@knauf.com</a> |

#### 1.4. Emergency telephone number

|  |                               |
|--|-------------------------------|
| <b>Association / Organisation</b>        | <b>Knauf UK &amp; Ireland</b> |
| <b>Emergency telephone numbers</b>       | 0800 521 050 - 9am - 5pm      |
| <b>Other emergency telephone numbers</b> | 111 - NHS Emergency           |

### SECTION 2 Hazards identification

#### 2.1. Classification of the substance or mixture

|  |                |
|--|----------------|
| <b>Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567 [1]</b> | Not Applicable |
|--|----------------|

#### 2.2. Label elements

|                            |                       |
|----------------------------|-----------------------|
| <b>Hazard pictogram(s)</b> | Not Applicable        |
| <b>Signal word</b>         | <b>Not Applicable</b> |

## Aquapanel Indoor Board

**Hazard statement(s)**

Not Applicable

**Supplementary statement(s)**

Not Applicable

**Precautionary statement(s) Prevention**

Not Applicable

**Precautionary statement(s) Response**

Not Applicable

**Precautionary statement(s) Storage**

Not Applicable

**Precautionary statement(s) Disposal**

Not Applicable

Material contains portland cement, silica crystalline - quartz.

**2.3. Other hazards**

Inhalation may produce health damage\*.

REACH - Art.57-59: The mixture does not contain Substances of Very High Concern (SVHC) at the SDS print date.

**SECTION 3 Composition / information on ingredients****3.1.Substances**

See 'Composition on ingredients' in Section 3.2

**3.2.Mixtures**

| 1. CAS No<br>2.EC No<br>3.Index No<br>4.REACH No                   | %<br>[weight] | Name                                       | Classified according to GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567  | SCL / M-Factor | Nanoform Particle Characteristics |
|--|---------------|--|--|----------------|-----------------------------------|
| Not Available  |               | Manufactured item.                         | Not Applicable   | Not Applicable | Not Available                     |
| Not Available  | 100           | Ingredients determined not to be hazardous | Not Applicable   | Not Applicable | Not Available                     |
| Not Available  |               | carrier plate is composed of               | Not Applicable   | Not Applicable | Not Available                     |
| 1. 65997-15-1<br>2.266-043-4<br>3.Not Available<br>4.Not Available |               | <u>portland cement</u>                     | Skin Corrosion/Irritation Category 2, Sensitisation (Skin) Category 1, Serious Eye Damage/Eye Irritation Category 1, Specific Target Organ Toxicity - Single Exposure (Respiratory Tract Irritation) Category 3, Germ Cell Mutagenicity Category 2, Specific Target Organ Toxicity - Repeated Exposure Category 2; H315, H317, H318, H335, H341, H373 <sup>[1]</sup> | Not Available  | Not Available                     |
| 1. 14808-60-7<br>2.238-878-4<br>3.Not Available<br>4.Not Available |               | <u>silica crystalline - quartz</u>         | Specific Target Organ Toxicity - Repeated Exposure Category 2; H373 <sup>[1]</sup>   | Not Available  | Not Available                     |

**Legend:**

1. Classification by vendor; 2. Classification drawn from GB-CLP Regulation, UK SI 2019/720 and UK SI 2020/1567; 3. Classification drawn from C&L; \* EU IOELVs available; [e] Substance identified as having endocrine disrupting properties

**SECTION 4 First aid measures****4.1. Description of first aid measures**

|                     |   |
|---------------------|---|
| <b>Eye Contact</b>  | <ul style="list-style-type: none"> <li>▶ Generally not applicable.</li> <li>If dust from product comes in contact with the eyes: <ul style="list-style-type: none"> <li>▶ Wash out immediately with fresh running water.</li> <li>▶ Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.</li> <li>▶ Seek medical attention without delay; if pain persists or recurs seek medical attention.</li> <li>▶ Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.</li> </ul> </li> </ul> |
| <b>Skin Contact</b> | <ul style="list-style-type: none"> <li>▶ Generally not applicable.</li> </ul>   |

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|                   |   |
|-------------------|---|
|                   | <p>If skin contact occurs:</p> <ul style="list-style-type: none"> <li>▶ Immediately remove all contaminated clothing, including footwear.</li> <li>▶ Flush skin and hair with running water (and soap if available).</li> <li>▶ Seek medical attention in event of irritation.</li> </ul>           |
| <b>Inhalation</b> | <ul style="list-style-type: none"> <li>▶ Generally not applicable.</li> <li>▶ If dust is inhaled, remove from contaminated area.</li> <li>▶ Encourage patient to blow nose to ensure clear passage of breathing.</li> <li>▶ If irritation or discomfort persists seek medical attention.</li> </ul> |
| <b>Ingestion</b>  | <ul style="list-style-type: none"> <li>▶ Not considered a normal route of entry.</li> <li>▶ Immediately give a glass of water.</li> <li>▶ First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.</li> </ul>  |

### 4.2 Most important symptoms and effects, both acute and delayed

See Section 11

### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

## SECTION 5 Firefighting measures

### 5.1. Extinguishing media

- ▶ There is no restriction on the type of extinguisher which may be used.
- ▶ Use extinguishing media suitable for surrounding area.

### 5.2. Special hazards arising from the substrate or mixture

|                             |             |
|-----------------------------|-------------|
| <b>Fire Incompatibility</b> | None known. |
|-----------------------------|-------------|

### 5.3. Advice for firefighters

|                              |  |
|------------------------------|--|
| <b>Fire Fighting</b>         | Slight hazard when exposed to heat, flame and oxidisers.   |
| <b>Fire/Explosion Hazard</b> | <ul style="list-style-type: none"> <li>▶ Non combustible.</li> <li>▶ Not considered a significant fire risk, however containers may burn.</li> </ul> |

## SECTION 6 Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

See section 8

### 6.2. Environmental precautions

See section 12

### 6.3. Methods and material for containment and cleaning up

|                     |   |
|---------------------|---|
| <b>Minor Spills</b> | <ul style="list-style-type: none"> <li>▶ Clean up all spills immediately.</li> <li>▶ Secure load if safe to do so.</li> <li>▶ Bundle/collect recoverable product.</li> <li>▶ Collect remaining material in containers with covers for disposal.</li> </ul>  |
| <b>Major Spills</b> | <ul style="list-style-type: none"> <li>▶ Minor hazard.</li> <li>▶ Clear area of personnel.</li> <li>▶ Alert Fire Brigade and tell them location and nature of hazard.</li> <li>▶ Wear physical protective gloves e.g. Leather.</li> <li>▶ Contain spill/secure load if safe to do so.</li> <li>▶ Bundle/collect recoverable product and label for recycling.</li> <li>▶ Collect remaining product and place in appropriate containers for disposal.</li> <li>▶ Clean up/sweep up area.</li> <li>▶ Water may be required.</li> </ul> |

### 6.4. Reference to other sections

Personal Protective Equipment advice is contained in Section 8 of the SDS.

## SECTION 7 Handling and storage

### 7.1. Precautions for safe handling

|                      |   |
|----------------------|---|
| <b>Safe handling</b> | <ul style="list-style-type: none"> <li>▶ Limit all unnecessary personal contact.</li> <li>▶ Wear protective clothing when risk of exposure occurs.</li> <li>▶ Use in a well-ventilated area.</li> </ul> |
|----------------------|---|

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|                                      |   |
|--------------------------------------|---|
|                                      | <ul style="list-style-type: none"> <li>▶ Atmosphere should be checked against exposure standards</li> <li>▶ Avoid contact with incompatible materials.</li> <li>▶ <b>When handling, DO NOT eat, drink or smoke.</b></li> <li>▶ Always wash hands with soap and water after handling.</li> <li>▶ Use good occupational work practice.</li> <li>▶ Observe manufacturer's storage and handling recommendations contained within this SDS.</li> </ul> |
| <b>Fire and explosion protection</b> | See section 5   |
| <b>Other information</b>             | ▶ Keep dry  |

## 7.2. Conditions for safe storage, including any incompatibilities

|  |   |
|--|---|
| <b>Suitable container</b>  | ▶ Packaging as recommended by manufacturer.             |
| <b>Storage incompatibility</b>   | Avoid contamination of water, foodstuffs, feed or seed. |
| <b>Hazard categories in accordance with Regulation (EC) No 2012/18/EU (Seveso III)</b>                             | Not Available   |
| <b>Qualifying quantity (tonnes) of dangerous substances as referred to in Article 3(10) for the application of</b> | Not Available   |

## 7.3. Specific end use(s)

See section 1.2

## SECTION 8 Exposure controls / personal protection

## 8.1. Control parameters

| Ingredient    | DNELs<br>Exposure Pattern Worker | PNECs<br>Compartment |
|---------------|----------------------------------|----------------------|
| Not Available | Not Available                    | Not Available        |

\* Values for General Population

## Occupational Exposure Limits (OEL)

## INGREDIENT DATA

| Source                               | Ingredient                  | Material name  | TWA                   | STEL          | Peak          | Notes  |
|--------------------------------------|-----------------------------|--|-----------------------|---------------|---------------|--|
| UK Workplace Exposure Limits (WELs). | portland cement             | Portland cement: inhalable dust                      | 10 mg/m <sup>3</sup>  | Not Available | Not Available | Not Available  |
| UK Workplace Exposure Limits (WELs). | portland cement             | Portland cement: respirable dust                     | 4 mg/m <sup>3</sup>   | Not Available | Not Available | Not Available  |
| UK Workplace Exposure Limits (WELs). | silica crystalline - quartz | Silica, respirable crystalline (respirable fraction) | 0.1 mg/m <sup>3</sup> | Not Available | Not Available | Carc (where generated as a result of a work process) |

## Emergency Limits

| Ingredient                  | TEEL-1                  | TEEL-2               | TEEL-3                |
|-----------------------------|-------------------------|----------------------|-----------------------|
| silica crystalline - quartz | 0.075 mg/m <sup>3</sup> | 33 mg/m <sup>3</sup> | 200 mg/m <sup>3</sup> |

| Ingredient                  | Original IDLH                               | Revised IDLH  |
|-----------------------------|---|---------------|
| portland cement             | 5,000 mg/m <sup>3</sup>                     | Not Available |
| silica crystalline - quartz | 25 mg/m <sup>3</sup> / 50 mg/m <sup>3</sup> | Not Available |

## MATERIAL DATA


▶ Generally not applicable.

## 8.2. Exposure controls

|  |  |
|--|--|
| <b>8.2.1. Appropriate engineering controls</b> | Articles or manufactured items, in their original condition, generally don't require engineering controls during handling or in normal use.<br>Exceptions may arise following extensive use and subsequent wear, during recycling or disposal operations where substances, found in the article, may be released to the environment.<br>Ensure adequate ventilation. |
|--|--|

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|  |  |
|--|--|
| 8.2.2. Individual protection measures, such as personal protective equipment |   |
| Eye and face protection  | <p>None under normal operating conditions.<br/> <b>OTHERWISE:</b></p> <ul style="list-style-type: none"> <li>▶ "Safety glasses with side shields</li> <li>▶ Chemical goggles.</li> <li>▶ Contact lenses may pose a special hazard; soft contact lenses may absorb and concentrate irritants. A written policy document, describing the wearing of lenses or restrictions on use, should be created for each workplace or task. This should include a review of lens absorption and adsorption for the class of chemicals in use and an account of injury experience. Medical and first-aid personnel should be trained in their removal and suitable equipment should be readily available. In the event of chemical exposure, begin eye irrigation immediately and remove contact lens as soon as practicable. Lens should be removed at the first signs of eye redness or irritation - lens should be removed in a clean environment only after workers have washed hands thoroughly. [CDC NIOSH Current Intelligence Bulletin 59], [AS/NZS 1336 or national equivalent]"</li> </ul> |
| Skin protection  | See Hand protection below  |
| Hands/feet protection  | <p>None under normal operating conditions.<br/> <b>OTHERWISE:</b></p> <ul style="list-style-type: none"> <li>▶ Wear general protective gloves, eg. light weight rubber gloves.</li> </ul> <p>Wear safety footwear.</p>   |
| Body protection  | See Other protection below   |
| Other protection   | <p>No special equipment needed when handling small quantities<br/> <b>OTHERWISE:</b></p> <ul style="list-style-type: none"> <li>▶ Overalls</li> <li>▶ Eyewash unit.</li> </ul> <p>Apply moisturising cream.</p>  |

## Respiratory protection

- Respirators may be necessary when engineering and administrative controls do not adequately prevent exposures.
  - The decision to use respiratory protection should be based on professional judgment that takes into account toxicity information, exposure measurement data, and frequency and likelihood of the worker's exposure - ensure users are not subject to high thermal loads which may result in heat stress or distress due to personal protective equipment (powered, positive flow, full face apparatus may be an option).
  - Published occupational exposure limits, where they exist, will assist in determining the adequacy of the selected respiratory protection. These may be government mandated or vendor recommended.
  - Certified respirators will be useful for protecting workers from inhalation of particulates when properly selected and fit tested as part of a complete respiratory protection program.
  - Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN143) dust masks. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)
  - Use approved positive flow mask if significant quantities of dust becomes airborne.
  - Try to avoid creating dust conditions.
- Class P2 particulate filters are used for protection against mechanically and thermally generated particulates or both. P2 is a respiratory filter rating under various international standards, Filters at least 94% of airborne particles
- Suitable for:
- Relatively small particles generated by mechanical processes eg. grinding, cutting, sanding, drilling, sawing.
  - Sub-micron thermally generated particles e.g. welding fumes, fertilizer and bushfire smoke.
  - Biologically active airborne particles under specified infection control applications e.g. viruses, bacteria, COVID-19, SARS

## 8.2.3. Environmental exposure controls

See section 12

## SECTION 9 Physical and chemical properties

## 9.1. Information on basic physical and chemical properties

|  |  |   |                |
|--|--|---|----------------|
| Appearance                                   | Cement grey solid with no odour; insoluble in water. |   |                |
| Physical state                               | Manufactured   | Relative density (Water = 1)            | 1.2-1.45       |
| Odour  | No Odour   | Partition coefficient n-octanol / water | Not Available  |
| Odour threshold                              | Not Available  | Auto-ignition temperature (°C)          | Not Applicable |
| pH (as supplied)                             | Not Applicable                                       | Decomposition temperature (°C)          | Not Available  |
| Melting point / freezing point (°C)          | >1000  | Viscosity (cSt)                         | Not Applicable |
| Initial boiling point and boiling range (°C) | Not Applicable                                       | Molecular weight (g/mol)                | Not Applicable |

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## Aquapanel Indoor Board

|                                  |                |  |                |
|----------------------------------|----------------|--|----------------|
| <b>Flash point (°C)</b>          | Not Applicable | <b>Taste</b>                             | Not Available  |
| <b>Evaporation rate</b>          | Not Applicable | <b>Explosive properties</b>              | Not Available  |
| <b>Flammability</b>              | Not Applicable | <b>Oxidising properties</b>              | Not Available  |
| <b>Upper Explosive Limit (%)</b> | Not Applicable | <b>Surface Tension (dyn/cm or mN/m)</b>  | Not Applicable |
| <b>Lower Explosive Limit (%)</b> | Not Applicable | <b>Volatile Component (%vol)</b>         | Not Applicable |
| <b>Vapour pressure (kPa)</b>     | Not Applicable | <b>Gas group</b>                         | Not Available  |
| <b>Solubility in water</b>       | Immiscible     | <b>pH as a solution (1%)</b>             | Not Applicable |
| <b>Vapour density (Air = 1)</b>  | Not Available  | <b>VOC g/L</b>                           | Not Applicable |
| <b>Nanoform Solubility</b>       | Not Available  | <b>Nanoform Particle Characteristics</b> | Not Available  |
| <b>Particle Size</b>             | Not Available  |  |                |

## 9.2. Other information

Not Available

## SECTION 10 Stability and reactivity

|   |   |
|---|---|
| <b>10.1.Reactivity</b>                          | See section 7.2   |
| <b>10.2. Chemical stability</b>                 | Product is considered stable and hazardous polymerisation will not occur. |
| <b>10.3. Possibility of hazardous reactions</b> | See section 7.2   |
| <b>10.4. Conditions to avoid</b>                | See section 7.2   |
| <b>10.5. Incompatible materials</b>             | See section 7.2   |
| <b>10.6. Hazardous decomposition products</b>   | See section 5.3   |

## SECTION 11 Toxicological information

## 11.1. Information on toxicological effects

|                     |  |
|---------------------|--|
| <b>Inhaled</b>      | Not normally a hazard due to physical form of product.<br>Generated dust may be highly discomfoting<br>Inhalation of dust may aggravate a pre-existing respiratory condition such as asthma, bronchitis, emphysema<br>Effects on lungs are significantly enhanced in the presence of respirable particles. Overexposure to respirable dust may produce wheezing, coughing and breathing difficulties leading to or symptomatic of impaired respiratory function.   |
| <b>Ingestion</b>    | Not normally a hazard due to the physical form of product. The material is a physical irritant to the gastro-intestinal tract  |
| <b>Skin Contact</b> | Not normally a hazard due to physical form of product.<br>The material may cause skin irritation after prolonged or repeated exposure and may produce a contact dermatitis (nonallergic). This form of dermatitis is often characterised by skin redness (erythema) and swelling epidermis. Histologically there may be intercellular oedema of the spongy layer (spongiosis) and intracellular oedema of the epidermis.   |
| <b>Eye</b>          | Not normally a hazard due to physical form of product.<br>The dust may produce eye discomfort causing transient smarting, blinking   |
| <b>Chronic</b>      | ► Hazard relates to dust released by sawing, cutting, sanding, trimming or other finishing operations.<br>Principal routes of exposure are by accidental skin and eye contact and inhalation of generated dusts.<br>Cement dust is an allergen with skin contact and/or dust inhalation possibly causing allergic response or even sensitisation responses<br>Potential irritation may occur as a result of the alkalinity and water-attracting properties of cement when in direct contact with mucous membranes. |

|                                    |  |                   |
|------------------------------------|--|-------------------|
| <b>Aquapanel Indoor Board</b>      | <b>TOXICITY</b>  | <b>IRRITATION</b> |
|                                    | Dermal (Rat) LD50: >2000 mg/kg <sup>[2]</sup>  | Not Available     |
| <b>portland cement</b>             | <b>TOXICITY</b>  | <b>IRRITATION</b> |
|                                    | Not Available  | Not Available     |
| <b>silica crystalline - quartz</b> | <b>TOXICITY</b>  | <b>IRRITATION</b> |
|                                    | Oral (Rat) LD50: 500 mg/kg <sup>[2]</sup>  | Not Available     |
| <b>Legend:</b>                     | 1. Value obtained from Europe ECHA Registered Substances - Acute toxicity 2. Value obtained from manufacturer's SDS.<br>Unless otherwise specified data extracted from RTECS - Register of Toxic Effect of chemical Substances |                   |

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## Aquapanel Indoor Board

|                                    |  |
|------------------------------------|--|
| <b>Aquapanel Indoor Board</b>      | <p>► Generally not applicable.</p>   |
| <b>PORTLAND CEMENT</b>             | <p>The following information refers to contact allergens as a group and may not be specific to this product. Contact allergies quickly manifest themselves as contact eczema, more rarely as urticaria or Quincke's oedema. The pathogenesis of contact eczema involves a cell-mediated (T lymphocytes) immune reaction of the delayed type. Other allergic skin reactions, e.g. contact urticaria, involve antibody-mediated immune reactions. The significance of the contact allergen is not simply determined by its sensitisation potential: the distribution of the substance and the opportunities for contact with it are equally important. A weakly sensitising substance which is widely distributed can be a more important allergen than one with stronger sensitising potential with which few individuals come into contact. From a clinical point of view, substances are noteworthy if they produce an allergic test reaction in more than 1% of the persons tested.</p> <p>Asthma-like symptoms may continue for months or even years after exposure to the material ends. This may be due to a non-allergic condition known as reactive airways dysfunction syndrome (RADS) which can occur after exposure to high levels of highly irritating compound. Main criteria for diagnosing RADS include the absence of previous airways disease in a non-atopic individual, with sudden onset of persistent asthma-like symptoms within minutes to hours of a documented exposure to the irritant. Other criteria for diagnosis of RADS include a reversible airflow pattern on lung function tests, moderate to severe bronchial hyperreactivity on methacholine challenge testing, and the lack of minimal lymphocytic inflammation, without eosinophilia. RADS (or asthma) following an irritating inhalation is an infrequent disorder with rates related to the concentration of and duration of exposure to the irritating substance. On the other hand, industrial bronchitis is a disorder that occurs as a result of exposure due to high concentrations of irritating substance (often particles) and is completely reversible after exposure ceases. The disorder is characterized by difficulty breathing, cough and mucus production.</p> <p>No significant acute toxicological data identified in literature search.</p> |
| <b>SILICA CRYSTALLINE - QUARTZ</b> | <p><b>WARNING:</b> For inhalation exposure <u>ONLY</u>: This substance has been classified by the IARC as Group 1: <b>CARCINOGENIC TO HUMANS</b></p> <p>The International Agency for Research on Cancer (IARC) has classified occupational exposures to <b>respirable</b> (&lt;5 µm) crystalline silica as being carcinogenic to humans. This classification is based on what IARC considered sufficient evidence from epidemiological studies of humans for the carcinogenicity of inhaled silica in the forms of quartz and cristobalite. Crystalline silica is also known to cause silicosis, a non-cancerous lung disease.</p> <p>Intermittent exposure produces; focal fibrosis, (pneumoconiosis), cough, dyspnoea, liver tumours.</p> <p>* Millions of particles per cubic foot (based on impinger samples counted by light field techniques).</p> <p>NOTE : the physical nature of quartz in the product determines whether it is likely to present a chronic health problem. To be a hazard the material must enter the breathing zone as respirable particles.</p>  |

|  |          |                                 |          |
|--|----------|---------------------------------|----------|
| <b>Acute Toxicity</b>                    | <b>×</b> | <b>Carcinogenicity</b>          | <b>×</b> |
| <b>Skin Irritation/Corrosion</b>         | <b>×</b> | <b>Reproductivity</b>           | <b>×</b> |
| <b>Serious Eye Damage/Irritation</b>     | <b>×</b> | <b>STOT - Single Exposure</b>   | <b>×</b> |
| <b>Respiratory or Skin sensitisation</b> | <b>×</b> | <b>STOT - Repeated Exposure</b> | <b>×</b> |
| <b>Mutagenicity</b>                      | <b>×</b> | <b>Aspiration Hazard</b>        | <b>×</b> |

**Legend:** **×** – Data either not available or does not fill the criteria for classification  
**✓** – Data available to make classification

## 11.2 Information on other hazards

### 11.2.1. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

### 11.2.2. Other information

See Section 11.1

## SECTION 12 Ecological information

### 12.1. Toxicity

|                                    | <b>Endpoint</b> | <b>Test Duration (hr)</b> | <b>Species</b> | <b>Value</b>  | <b>Source</b> |
|------------------------------------|-----------------|---------------------------|----------------|---------------|---------------|
| <b>Aquapanel Indoor Board</b>      | Not Available   | Not Available             | Not Available  | Not Available | Not Available |
| <b>portland cement</b>             | Not Available   | Not Available             | Not Available  | Not Available | Not Available |
| <b>silica crystalline - quartz</b> | Not Available   | Not Available             | Not Available  | Not Available | Not Available |

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**Legend:** Extracted from 1. IUCLID Toxicity Data 2. Europe ECHA Registered Substances - Ecotoxicological Information - Aquatic Toxicity 4. US EPA, Ecotox database - Aquatic Toxicity Data 5. ECETOC Aquatic Hazard Assessment Data 6. NITE (Japan) - Bioconcentration Data 7. METI (Japan) - Bioconcentration Data 8. Vendor Data

**DO NOT** discharge into sewer or waterways.

### 12.2. Persistence and degradability

| Ingredient | Persistence: Water/Soil               | Persistence: Air                      |
|------------|---------------------------------------|---------------------------------------|
|            | No Data available for all ingredients | No Data available for all ingredients |

### 12.3. Bioaccumulative potential

| Ingredient | Bioaccumulation                       |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

### 12.4. Mobility in soil

| Ingredient | Mobility                              |
|------------|---------------------------------------|
|            | No Data available for all ingredients |

### 12.5. Results of PBT and vPvB assessment

|                         | P             | B             | T             |
|-------------------------|---------------|---------------|---------------|
| Relevant available data | Not Available | Not Available | Not Available |
| PBT                     | ✗             | ✗             | ✗             |
| vPvB                    | ✗             | ✗             | ✗             |
| PBT Criteria fulfilled? | No            |               |               |
| vPvB                    | No            |               |               |

### 12.6. Endocrine disrupting properties

No evidence of endocrine disrupting properties were found in the current literature.

### 12.7. Other adverse effects

No evidence of ozone depleting properties were found in the current literature.

## SECTION 13 Disposal considerations

### 13.1. Waste treatment methods

|                                     |   |
|-------------------------------------|---|
| <b>Product / Packaging disposal</b> | <ul style="list-style-type: none"> <li>Recycle wherever possible or consult manufacturer for recycling options.</li> <li>Consult State Land Waste Management Authority for disposal.</li> </ul> |
| <b>Waste treatment options</b>      | Not Available   |
| <b>Sewage disposal options</b>      | Not Available   |

## SECTION 14 Transport information

### Labels Required

|                         |    |
|-------------------------|----|
| <b>Marine Pollutant</b> | NO |
|-------------------------|----|

### Land transport (ADR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

|                                  |  |       |                |                   |                |
|----------------------------------|--|-------|----------------|-------------------|----------------|
| 14.1. UN number or ID number     | Not Applicable   |       |                |                   |                |
| 14.2. UN proper shipping name    | Not Applicable   |       |                |                   |                |
| 14.3. Transport hazard class(es) | <table border="1"> <tbody> <tr> <td>Class</td> <td>Not Applicable</td> </tr> <tr> <td>Subsidiary Hazard</td> <td>Not Applicable</td> </tr> </tbody> </table> | Class | Not Applicable | Subsidiary Hazard | Not Applicable |
| Class                            | Not Applicable   |       |                |                   |                |
| Subsidiary Hazard                | Not Applicable   |       |                |                   |                |
| 14.4. Packing group              | Not Applicable   |       |                |                   |                |
| 14.5. Environmental hazard       | Not Applicable   |       |                |                   |                |

Continued...

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|                                    |                                |                |
|------------------------------------|--------------------------------|----------------|
| 14.6. Special precautions for user | Hazard identification (Kemler) | Not Applicable |
|                                    | Classification code            | Not Applicable |
|                                    | Hazard Label                   | Not Applicable |
|                                    | Special provisions             | Not Applicable |
|                                    | Limited quantity               | Not Applicable |
|                                    | Tunnel Restriction Code        | Not Applicable |

## Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

|                                    |   |                |
|------------------------------------|---|----------------|
| 14.1. UN number                    | Not Applicable  |                |
| 14.2. UN proper shipping name      | Not Applicable  |                |
| 14.3. Transport hazard class(es)   | ICAO/IATA Class   | Not Applicable |
|                                    | ICAO / IATA Subsidiary Hazard                             | Not Applicable |
|                                    | ERG Code  | Not Applicable |
| 14.4. Packing group                | Not Applicable  |                |
| 14.5. Environmental hazard         | Not Applicable  |                |
| 14.6. Special precautions for user | Special provisions  | Not Applicable |
|                                    | Cargo Only Packing Instructions                           | Not Applicable |
|                                    | Cargo Only Maximum Qty / Pack                             | Not Applicable |
|                                    | Passenger and Cargo Packing Instructions                  | Not Applicable |
|                                    | Passenger and Cargo Maximum Qty / Pack                    | Not Applicable |
|                                    | Passenger and Cargo Limited Quantity Packing Instructions | Not Applicable |
|                                    | Passenger and Cargo Limited Maximum Qty / Pack            | Not Applicable |

## Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

|                                    |                        |                |
|------------------------------------|------------------------|----------------|
| 14.1. UN number                    | Not Applicable         |                |
| 14.2. UN proper shipping name      | Not Applicable         |                |
| 14.3. Transport hazard class(es)   | IMDG Class             | Not Applicable |
|                                    | IMDG Subsidiary Hazard | Not Applicable |
| 14.4. Packing group                | Not Applicable         |                |
| 14.5. Environmental hazard         | Not Applicable         |                |
| 14.6. Special precautions for user | EMS Number             | Not Applicable |
|                                    | Special provisions     | Not Applicable |
|                                    | Limited Quantities     | Not Applicable |

## Inland waterways transport (ADN): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS

|                                    |                     |                |
|------------------------------------|---------------------|----------------|
| 14.1. UN number                    | Not Applicable      |                |
| 14.2. UN proper shipping name      | Not Applicable      |                |
| 14.3. Transport hazard class(es)   | Not Applicable      | Not Applicable |
| 14.4. Packing group                | Not Applicable      |                |
| 14.5. Environmental hazard         | Not Applicable      |                |
| 14.6. Special precautions for user | Classification code | Not Applicable |
|                                    | Special provisions  | Not Applicable |
|                                    | Limited quantity    | Not Applicable |
|                                    | Equipment required  | Not Applicable |
|                                    | Fire cones number   | Not Applicable |

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**14.7.1. Transport in bulk according to Annex II of MARPOL and the IBC code**

Not Applicable

**14.7.2. Transport in bulk in accordance with MARPOL Annex V and the IMSBC Code**

| Product name                | Group         |
|-----------------------------|---------------|
| portland cement             | Not Available |
| silica crystalline - quartz | Not Available |

**14.7.3. Transport in bulk in accordance with the IGC Code**

| Product name                | Ship Type     |
|-----------------------------|---------------|
| portland cement             | Not Available |
| silica crystalline - quartz | Not Available |

**SECTION 15 Regulatory information****15.1. Safety, health and environmental regulations / legislation specific for the substance or mixture**

portland cement is found on the following regulatory lists

UK Workplace Exposure Limits (WELs).

silica crystalline - quartz is found on the following regulatory lists

Chemical Footprint Project - Chemicals of High Concern List

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs

International Agency for Research on Cancer (IARC) - Agents Classified by the IARC Monographs - Group 1: Carcinogenic to humans

UK Workplace Exposure Limits (WELs).

**Additional Regulatory Information**

Not Applicable

This safety data sheet is in compliance with the following EU legislation and its adaptations - as far as applicable - : Directives 98/24/EC, - 92/85/EEC, - 94/33/EC, - 2008/98/EC, - 2010/75/EU; Commission Regulation (EU) 2020/878; Regulation (EC) No 1272/2008 as updated through ATPs.

**Information according to 2012/18/EU (Seveso III):**

| Seveso Category | Not Available |
|-----------------|---------------|
|                 |               |

**15.2. Chemical safety assessment**

No Chemical Safety Assessment has been carried out for this substance/mixture by the supplier.

**National Inventory Status**

| National Inventory                              | Status  |
|---|---|
| Australia - AIIC / Australia Non-Industrial Use | Yes   |
| Canada - DSL                                    | Yes   |
| Canada - NDSL                                   | No (portland cement; silica crystalline - quartz)   |
| China - IECSC                                   | Yes   |
| Europe - EINEC / ELINCS / NLP                   | Yes   |
| Japan - ENCS                                    | No (portland cement)  |
| Korea - KECI                                    | Yes   |
| New Zealand - NZIoC                             | Yes   |
| Philippines - PICCS                             | No (portland cement)  |
| USA - TSCA                                      | Yes   |
| Taiwan - TCSI                                   | Yes   |
| Mexico - INSQ                                   | Yes   |
| Vietnam - NCI                                   | Yes   |
| Russia - FBEPH                                  | Yes   |
| <b>Legend:</b>                                  | Yes = All CAS declared ingredients are on the inventory<br>No = One or more of the CAS listed ingredients are not on the inventory. These ingredients may be exempt or will require registration. |

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## SECTION 16 Other information

|                      |            |
|----------------------|------------|
| <b>Revision Date</b> | 24/11/2023 |
| <b>Initial Date</b>  | 21/11/2023 |

## Full text Risk and Hazard codes

|             |  |
|-------------|--|
| <b>H315</b> | Causes skin irritation.  |
| <b>H317</b> | May cause an allergic skin reaction.                               |
| <b>H318</b> | Causes serious eye damage.   |
| <b>H335</b> | May cause respiratory irritation.                                  |
| <b>H341</b> | Suspected of causing genetic defects.                              |
| <b>H373</b> | May cause damage to organs through prolonged or repeated exposure. |

## SDS Version Summary

| Version | Date of Update | Sections Updated   |
|---------|----------------|--|
| 3.1     | 22/11/2023     | Physical and chemical properties - Appearance, Toxicological information - Chronic Health, First Aid measures - First Aid (eye), First Aid measures - First Aid (skin), Exposure controls / personal protection - Personal Protection (Respirator), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (hands/feet), Handling and storage - Storage (storage incompatibility), Identification of the substance / mixture and of the company / undertaking - Use  |
| 4.1     | 24/11/2023     | Toxicological information - Acute Health (eye), Toxicological information - Acute Health (inhaled), Toxicological information - Acute Health (skin), Physical and chemical properties - Appearance, Toxicological information - Chronic Health, Hazards identification - Classification, Disposal considerations - Disposal, Exposure controls / personal protection - Engineering Control, Firefighting measures - Fire Fighter (extinguishing media), Firefighting measures - Fire Fighter (fire fighting), First Aid measures - First Aid (eye), First Aid measures - First Aid (inhaled), Handling and storage - Handling Procedure, Composition / information on ingredients - Ingredients, Exposure controls / personal protection - Personal Protection (other), Exposure controls / personal protection - Personal Protection (eye), Exposure controls / personal protection - Personal Protection (hands/feet), Handling and storage - Storage (storage incompatibility), Handling and storage - Storage (suitable container), Identification of the substance / mixture and of the company / undertaking - Use |

## Other information

Classification of the preparation and its individual components has drawn on official and authoritative sources using available literature references.

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings. Risks may be determined by reference to Exposures Scenarios. Scale of use, frequency of use and current or available engineering controls must be considered.

For detailed advice on Personal Protective Equipment, refer to the following EU CEN Standards:

- EN 166 Personal eye-protection
- EN 340 Protective clothing
- EN 374 Protective gloves against chemicals and micro-organisms
- EN 13832 Footwear protecting against chemicals
- EN 133 Respiratory protective devices

## Definitions and abbreviations

- PC - TWA: Permissible Concentration-Time Weighted Average
- PC - STEL: Permissible Concentration-Short Term Exposure Limit
- IARC: International Agency for Research on Cancer
- ACGIH: American Conference of Governmental Industrial Hygienists
- STEL: Short Term Exposure Limit
- TEEL: Temporary Emergency Exposure Limit,
- IDLH: Immediately Dangerous to Life or Health Concentrations
- ES: Exposure Standard
- OSF: Odour Safety Factor
- NOAEL: No Observed Adverse Effect Level
- LOAEL: Lowest Observed Adverse Effect Level
- TLV: Threshold Limit Value
- LOD: Limit Of Detection
- OTV: Odour Threshold Value
- BCF: BioConcentration Factors
- BEI: Biological Exposure Index
- DNEL: Derived No-Effect Level
- PNEC: Predicted no-effect concentration
  
- AIIC: Australian Inventory of Industrial Chemicals

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- ▶ DSL: Domestic Substances List
- ▶ NDSL: Non-Domestic Substances List
- ▶ IECSC: Inventory of Existing Chemical Substance in China
- ▶ EINECS: European INventory of Existing Commercial chemical Substances
- ▶ ELINCS: European List of Notified Chemical Substances
- ▶ NLP: No-Longer Polymers
- ▶ ENCS: Existing and New Chemical Substances Inventory
- ▶ KECI: Korea Existing Chemicals Inventory
- ▶ NZIoC: New Zealand Inventory of Chemicals
- ▶ PICCS: Philippine Inventory of Chemicals and Chemical Substances
- ▶ TSCA: Toxic Substances Control Act
- ▶ TCSI: Taiwan Chemical Substance Inventory
- ▶ INSQ: Inventario Nacional de Sustancias Químicas
- ▶ NCI: National Chemical Inventory
- ▶ FBEPH: Russian Register of Potentially Hazardous Chemical and Biological Substances

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