2. Hazards Identification

**EMERGENCY OVERVIEW:** WARNING: INJURIOUS TO EYES. CAUSES SKIN IRRITATION. Product dust may be irritating to eyes, skin and respiratory system. If dry-sanded, exposure to dust may result in build-up of material in eyes, ears, nose, and mouth.

**GHS Classification**
Acute Tox. 4 Inhalation, Carc. 1A, Eye Dam. 1, Skin Irrit. 2, Skin Sens. 1, STOT RE 1, STOT SE 1, STOT SE 3 RTI

**Symbol(s) of Product**

**Signal Word**
Danger

**Possible Hazards**
26% of the mixture consists of ingredients of unknown acute toxicity
GHS HAZARD STATEMENTS
Skin Irritation, category 2 H315 Causes skin irritation.
Skin Sensitizer, category 1 H317 May cause an allergic skin reaction.
Serious Eye Damage, category 1 H318 Causes serious eye damage.
Acute Toxicity, Inhalation, category 4 H332 Harmful if inhaled.
STOT, single exposure, category 3, RTI H335 May cause respiratory irritation.
Carcinogenicity, category 1A H350 May cause cancer.
STOT, single exposure, category 1 H370 Causes damage to organs. Classified Category 1 Substances that produced significant toxicity in humans and evidence to produce significant toxicity with single exposure. Cell death, adverse change in biochemistry, haematology or urinalysis parameters, Central or peripheral nervous system and effects senses. multifocal or diffuse necrosis, fibrosis or granuloma formation in organs.
STOT, repeated exposure, category 1 H372 Causes damage to organs through prolonged or repeated exposure.

GHS LABEL PRECAUTIONARY STATEMENTS
P201 Obtain special instructions before use.
P260 Do not breathe dust/fume/gas/mist/vapours/spray.
P264 Wash thoroughly after handling.
P271 Use only outdoors or in a well-ventilated area.
P272 Contaminated work clothing should not be allowed out of the workplace.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
P302+P352 IF ON SKIN: Wash with plenty of soap and water.
P304+P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308+P311 IF exposed or concerned: Call a POISON CENTER/doctor/...
P308+P313 IF exposed or concerned: Get medical advice/attention.
P310 Immediately call a POISON CENTER or doctor/physician.
P321 Specific treatment (see ... on this label).
P332+P313 If skin irritation occurs: Get medical advice/attention.
P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P362 Take off contaminated clothing.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
P405 Store locked up.
P501 Dispose of contents/container.

GHS SDS PRECAUTIONARY STATEMENTS
P270 Do no eat, drink or smoke when using this product.
P363 Wash contaminated clothing before reuse.

3. Composition/Information on Ingredients

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>CAS-No.</th>
<th>Wt. %</th>
<th>GHS Symbols</th>
<th>GHS Statements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>65997-15-1</td>
<td>30-60</td>
<td>GHS05-GHS07</td>
<td>H315-317-318-335</td>
</tr>
<tr>
<td>Quartz</td>
<td>14808-60-7</td>
<td>10-30</td>
<td>GHS07-GHS08</td>
<td>H332-350-370-372</td>
</tr>
<tr>
<td>Fused calcium aluminate</td>
<td>65997-16-2</td>
<td>10-30</td>
<td>GHS07</td>
<td>H319-332</td>
</tr>
<tr>
<td>Calcium sulfate</td>
<td>7778-18-9</td>
<td>1-5</td>
<td>GHS07</td>
<td>H320-332</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>1305-62-0</td>
<td>1-5</td>
<td>No Information</td>
<td>No Information</td>
</tr>
</tbody>
</table>

The text for GHS Hazard Statements shown above (if any) is given in the "Other information" Section.

4. First-aid Measures

**FIRST AID - INHALATION:** If inhaled, remove to fresh air. If breathing is difficult, leave the area to obtain fresh air. If continued breathing difficulty is experienced, get medical attention immediately.

**FIRST AID - SKIN CONTACT:** Wash thoroughly with soap and water. If skin irritation persists, call a physician.

**FIRST AID - EYE CONTACT:** In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Get medical attention immediately.

**FIRST AID - INGESTION:** Call a physician or Poison Control Center immediately. Do not induce vomiting.
5. Fire-fighting Measures

UNUSUAL FIRE AND EXPLOSION HAZARDS: Material will not burn.

SPECIAL FIREFIGHTING PROCEDURES: Use water spray to cool exposed surfaces.

EXTINGUISHING MEDIA: Alcohol Foam, Carbon Dioxide, Dry Chemical, Foam, Water Spray or Fog

6. Accidental Release Measures

ENVIRONMENTAL MEASURES: No Information

STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED: In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Sweep up excess powder. Place remaining powder into containers.

7. Handling and Storage

HANDLING: KEEP OUT OF REACH OF CHILDREN! Keep containers closed when not in use. Use only with adequate ventilation. Ensure fresh air entry during application and drying. Avoid contact with skin and eyes. Do not breathe dust. Do not inhale dusts of this product. While dry sanding, use of a NIOSH-approved dust mask is recommended.

STORAGE: Store containers away from excessive heat and freezing.

8. Exposure Controls/Personal Protection

Ingredients with Occupational Exposure Limits

<table>
<thead>
<tr>
<th>Chemical Name</th>
<th>ACGIH TLV-TWA</th>
<th>ACGIH-TLV STEL</th>
<th>OSHA PEL-TWA</th>
<th>OSHA PEL-CEILING</th>
</tr>
</thead>
<tbody>
<tr>
<td>Portland cement</td>
<td>1 mg/m³ TWA</td>
<td>N.E.</td>
<td>15 mg/m³ TWA total dust, 5 mg/m³ TWA respirable fraction</td>
<td>N.E.</td>
</tr>
<tr>
<td></td>
<td>particulate matter containing no asbestos and &lt;1% crystalline silica, respirable particulate matter</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Quartz</td>
<td>0.025 mg/m³ TWA respirable particulate matter</td>
<td>N.E.</td>
<td></td>
<td>50 µg/m³ TWA Respirable crystalline silica</td>
</tr>
<tr>
<td>Fused calcium aluminate</td>
<td>N.E.</td>
<td>N.E.</td>
<td></td>
<td>N.E.</td>
</tr>
<tr>
<td>Calcium sulfate</td>
<td>10 mg/m³ TWA inhalable particulate matter</td>
<td>N.E.</td>
<td></td>
<td>15 mg/m³ TWA total dust, 5 mg/m³ TWA respirable fraction</td>
</tr>
<tr>
<td>Calcium hydroxide</td>
<td>5 mg/m³ TWA</td>
<td>N.E.</td>
<td></td>
<td>15 mg/m³ TWA total dust, 5 mg/m³ TWA respirable fraction</td>
</tr>
</tbody>
</table>

Further Advice: MEL = Maximum Exposure Limit  OES = Occupational Exposure Standard  SUP = Supplier's Recommendation  Sk = Skin Sensitizer  N.E. = Not Established

Personal Protection

RESPIRATORY PROTECTION: When concentrations exceed the exposure limits specified, use of a NIOSH-approved dust, mist and fume respirator is recommended. Where the protection factor of the respirator may be exceeded, use of a full facepiece, supplied air, or Self Contained Breathing Apparatus (SCBA) may be necessary. National Institute for Occupational Safety and Health (NIOSH) has recommended that the permissible exposure limit be changed to 50 micrograms respirable free silica per cubic meter of air (0.05 mg/m³) as determined by a full shift sample up to 10-hour work shift. A respiratory protection program that meets the OSHA 1910.134 and ANSI Z88.2 requirements must be followed whenever workplace conditions warrant a respirator's use.

SKIN PROTECTION: Impervious gloves. Wear protective gloves.
EYE PROTECTION: Goggles or safety glasses with side shields.

OTHER PROTECTIVE EQUIPMENT: Provide eyewash. Provide coveralls if body contact may occur.

HYGIENIC PRACTICES: Remove and wash contaminated clothing before re-use. Follow all MSDS / label precautions even after container is emptied because it may retain product residues.

9. Physical and Chemical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Appearance</td>
<td>Gray</td>
</tr>
<tr>
<td>Odor</td>
<td>Little or No</td>
</tr>
<tr>
<td>Density, g/cm³</td>
<td>2.97 - 2.97</td>
</tr>
<tr>
<td>Freeze Point, °C</td>
<td>Not Established</td>
</tr>
<tr>
<td>Solubility in Water</td>
<td>Not Established</td>
</tr>
<tr>
<td>Decomposition Temperature, °C</td>
<td>Not Established</td>
</tr>
<tr>
<td>Boiling Range, °C</td>
<td>N.A. - N.A.</td>
</tr>
<tr>
<td>Minimum Flash Point, °C</td>
<td>N.A.</td>
</tr>
<tr>
<td>Evaporation Rate</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Vapor Density</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Combustible Dust</td>
<td>Does not support combustion</td>
</tr>
<tr>
<td>Physical State</td>
<td>Powder</td>
</tr>
<tr>
<td>Odor Threshold</td>
<td>Not Established</td>
</tr>
<tr>
<td>pH</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Viscosity (mPa.s)</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Partition Coeff., n-octanol/water</td>
<td>Not Established</td>
</tr>
<tr>
<td>Explosive Limits, %</td>
<td>N.A. - N.A.</td>
</tr>
<tr>
<td>Auto-Ignition Temperature, °C</td>
<td>Not Established</td>
</tr>
<tr>
<td>Vapor Pressure, mmHg</td>
<td>Not Established</td>
</tr>
<tr>
<td>Flash Method</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>Flammability, NFPA</td>
<td>Non-Flammable</td>
</tr>
</tbody>
</table>

(See "Other information" Section for abbreviation legend)
(If product is an aerosol, the flash point stated above is that of the propellant.)

10. Stability and Reactivity

STABILITY: Stable under recommended storage conditions.

CONDITIONS TO AVOID: Do not breathe dust. Avoid dust formation in confined areas. Excessive heat and freezing.

INCOMPATIBILITY: Incompatible with strong bases and oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: Normal decomposition products, i.e., COx, NOx.

11. Toxicological Information

EFFECT OF OVEREXPOSURE - INHALATION: Inhalation causes irritation to the respiratory tract (nose, mouth, throat, mucous membranes). Prolonged, repeated, or high exposures may cause irritation to the respiratory tract (nose, mouth, mucous membranes).

EFFECT OF OVEREXPOSURE - SKIN CONTACT: May cause skin irritation. May develop enough heat to cause burns if a large mass such as a cast of hand or arm, is kept in contact with skin while hardening. Wet cement can dry skin and cause alkali burns.

EFFECT OF OVEREXPOSURE - EYE CONTACT: May cause eye irritation. Signs and symptoms may include: pain, tears, swelling, redness and blurred vision. May cause eye irritation.

EFFECT OF OVEREXPOSURE - INGESTION: Ingestion may result in obstruction when material hardens. Irritating to mouth, throat and stomach.

CARCINOGENICITY: No Information

EFFECT OF OVEREXPOSURE - CHRONIC HAZARDS: The International Agency for Research on Cancer (IARC) has determined that crystalline silica in the form of quartz or cristobalite that is inhaled from occupational sources is carcinogenic to humans (Group 1 - carcinogenic to humans). Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (published in June 1997) in conjunction with the use of these materials. The National Toxicology Program (NTP) classifies respirable crystalline silica as "known to be a human carcinogen". Refer to the 9th Report on Carcinogens (2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (Group A2). Breathing dust containing respirable crystalline silica may not cause noticeable injury or illness even though permanent lung damage may be occurring. Inhalation of dust may have the following serious chronic health effects: Excessive inhalation of respirable dust can cause pneumoconiosis, a respiratory disease, which can result in delayed, progressive, disabling and sometimes fatal lung injury. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness and reduced pulmonary function. Smoking
exacerbates this disease. Individuals with pneumoconiosis are predisposed to develop tuberculosis. There is some evidence that breathing respirable crystalline silica or the disease silicosis is associated with an increased incidence of significant disease endpoints such as scleroderma (an immune system disorder manifested by fibrosis of the lungs, skin and other internal organs) and kidney disease. Prolonged or repeated inhalation of dust may cause lung damage. Constituents of this product include crystalline silica which, if inhalable, may cause silicosis, a form of progressive pulmonary fibrosis. Inhalable crystalline silica is listed by IARC as a group I carcinogen (lung) based on sufficient evidence in occupationally exposed humans and sufficient evidence in animals. Crystalline silica is also listed by the NTP as a known human carcinogen. Constituents may also contain asbestiform or non-asbestiform tremolite or other silicates as impurities, and above de minimus exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

**PRIMARY ROUTE(S) OF ENTRY:** Skin Contact, Inhalation, Eye Contact

### Acute Toxicity Values

The acute effects of this product have not been tested. Data on individual components are tabulated below.

<table>
<thead>
<tr>
<th>CAS-No.</th>
<th>Chemical Name</th>
<th>Oral LD50</th>
<th>Dermal LD50</th>
<th>Vapor LC50</th>
</tr>
</thead>
<tbody>
<tr>
<td>65997-15-1</td>
<td>Portland cement</td>
<td>N.I.</td>
<td>&gt;2000 mg/kg Rat</td>
<td>&gt;20 g/L</td>
</tr>
<tr>
<td>14808-60-7</td>
<td>Quartz</td>
<td>N.I.</td>
<td>N.I.</td>
<td>N.I.</td>
</tr>
<tr>
<td>65997-16-2</td>
<td>Fused calcium aluminate</td>
<td>&gt;2000 mg/kg Rat</td>
<td>&gt;2000 mg/L Rat</td>
<td>N.I.</td>
</tr>
<tr>
<td>7778-18-9</td>
<td>Calcium sulfate</td>
<td>&gt;3000 mg/kg Rat</td>
<td>N.I.</td>
<td>N.I.</td>
</tr>
<tr>
<td>1305-62-0</td>
<td>Calcium hydroxide</td>
<td>7340 mg/kg Rat</td>
<td>2500 mg/kg Rabbit</td>
<td>N.I.</td>
</tr>
</tbody>
</table>

N.I. = No Information

#### 12. Ecological Information

**ECOLOGICAL INFORMATION:** No Information

#### 13. Disposal Information

**DISPOSAL INFORMATION:** This product does not meet the definition of a hazardous waste according to U.S. EPA Hazardous Waste Management Regulation, 40 CFR Section 261. Dispose as hazardous waste according to all local, state, federal and provincial regulations. State and Local regulations/restrictions are complex and may differ from Federal regulations. Responsibility for proper waste disposal is with the owner of the waste.

**STEPS TO BE TAKEN IF MATERIAL IS RELEASED OR SPILLED:** In case of spillage, absorb with inert material and dispose of in accordance with applicable regulations. Sweep up excess powder. Place remaining powder into containers.

#### 14. Transport Information

<table>
<thead>
<tr>
<th>DOT UN/NA Number:</th>
<th>N.A.</th>
</tr>
</thead>
<tbody>
<tr>
<td>DOT Proper Shipping Name:</td>
<td>Not Regulated</td>
</tr>
<tr>
<td>DOT Technical Name:</td>
<td>N.A.</td>
</tr>
<tr>
<td>DOT Hazard Class:</td>
<td>N.A.</td>
</tr>
<tr>
<td>Hazard SubClass:</td>
<td>N.A.</td>
</tr>
<tr>
<td>Packing Group:</td>
<td>N.A.</td>
</tr>
</tbody>
</table>

#### 15. Regulatory Information

**U.S. Federal Regulations:**

**CERCLA - SARA Hazard Category**

This product has been reviewed according to the EPA ‘Hazard Categories’ promulgated under Sections 311 and 312 of the Superfund Amendment and Reauthorization Act of 1986 (SARA Title III) and is considered, under applicable definitions, to meet the following categories:

- Carcinogenicity
- Acute Toxicity (any route of exposure)
- Skin Corrosion or Irritation
- Respiratory or Skin Sensitization
- Serious eye damage or eye irritation
- Specific target organ toxicity (single or repeated exposure)
SARA SECTION 313:

This product contains the following substances subject to the reporting requirements of Section 313 of Title III of the Superfund Amendment and Reauthorization Act of 1986 and 40 CFR part 372:

No Sara 313 components exist in this product.

TOXIC SUBSTANCES CONTROL ACT:

All ingredients in this product are either on TSCA inventory list, or otherwise exempt.
This product contains the following chemical substances subject to the reporting requirements of TSCA 12(B) if exported from the United States:

No TSCA 12(b) components exist in this product.

16. Other Information

Revision Date: 4/11/2022  Supersedes Date: 12/29/2021
Reason for revision: Substance and/or Product Properties Changed in Section(s):
01 - Product Information
Datasheet produced by: Regulatory Department
HMIS Ratings:

<table>
<thead>
<tr>
<th>Health:</th>
<th>Flammability:</th>
<th>Reactivity:</th>
<th>Personal Protection:</th>
</tr>
</thead>
<tbody>
<tr>
<td>2*</td>
<td>0</td>
<td>0</td>
<td>X</td>
</tr>
</tbody>
</table>

VOC Less Water Less Exempt Solvent, g/L: 0.0
VOC Material, g/L: 0
VOC as Defined by California Consumer Product Regulation, Wt/Wt%: 0.00
VOC Actual, Wt/Wt%: 0.0

Text for GHS Hazard Statements shown in Section 3 describing each ingredient:

H315  Causes skin irritation.
H317  May cause an allergic skin reaction.
H318  Causes serious eye damage.
H319  Causes serious eye irritation.
H320  Causes eye irritation
H332  Harmful if inhaled.
H335  May cause respiratory irritation.
H350  May cause cancer.
H370  Causes damage to organs . Classified Category 1 Substances that produced significant toxicity in humans and evidence to produce significant toxicity with single exposure. Cell death, adverse change in biochemistry, haematology or urinalysis parameters, Central or peripheral nervous system and effects senses. multifocal or diffuse necrosis, fibrosis or granuloma formation in organs.
H372  Causes damage to organs through prolonged or repeated exposure.

Icons for GHS Pictograms shown in Section 3 describing each ingredient:

GHS05

GHS07
GHS08

Legend: N.A. - Not Applicable, N.E. - Not Established, N.D. - Not Determined

DAP believes the data and statements contained herein are accurate as of the date hereof. They are offered in good faith as typical values and not as a product specification. NO WARRANTY OF MERCHANTABILITY, WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE OR ANY OTHER WARRANTY, EXPRESS OR IMPLIED, IS MADE WITH REGARD TO THE INFORMATION HEREIN PROVIDED OR THE PRODUCT TO WHICH THE INFORMATION REFERS. Since this document is intended only as a guide to the appropriate use and precautionary handling of the referenced product by a properly trained person, it is therefore the responsibility of the user to (i) review the recommendations with due consideration for the specific context of the intended use and (ii) determine if they are appropriate.