

# SAFETY DATA SHEET

## 1. Identification

**Material name:** OB - MICRO CRETE - 40# BG GRAY \*

**Material:** CMIC P040 355

### Recommended use and restriction on use

**Recommended use:** Cement, Portland, chemicals

**Restrictions on use:** Not known.

### Manufacturer/Importer/Supplier/Distributor Information

Euclid Admixture Canada Inc.

2835 Grand-Allee

Saint Hubert QC J4T 2R4

CA

**Contact person:**

EH&S Department

**Telephone:**

(450)465-2233

**Emergency telephone number:**

1-800-424-9300 (US); 1-613-996-6666 (Canada)

## 2. Hazard(s) identification

### Hazard Classification

#### Health Hazards

|                                                       |                         |
|-------------------------------------------------------|-------------------------|
| Skin Corrosion/Irritation                             | Category 2              |
| Serious Eye Damage/Eye Irritation                     | Category 1              |
| Skin sensitizer                                       | Category 1              |
| Carcinogenicity                                       | Category 1A             |
| Specific Target Organ Toxicity -<br>Single Exposure   | Category 3 <sup>1</sup> |
| Specific Target Organ Toxicity -<br>Repeated Exposure | Category 1 <sup>2</sup> |

#### Target Organs

1. Respiratory tract irritation.
2. Lung

#### Unknown toxicity - Health

|                                             |         |
|---------------------------------------------|---------|
| Acute toxicity, oral                        | 77.67 % |
| Acute toxicity, dermal                      | 87.44 % |
| Acute toxicity, inhalation, vapor           | 100 %   |
| Acute toxicity, inhalation, dust<br>or mist | 49.66 % |

### Label Elements

**Hazard Symbol:**



**Signal Word:** Danger

**Hazard Statement:** Causes skin irritation.  
Causes serious eye damage.  
May cause an allergic skin reaction.  
May cause cancer.  
May cause respiratory irritation.  
Causes damage to organs through prolonged or repeated exposure.

**Precautionary Statements**

**Prevention:** Wash thoroughly after handling. Wear protective gloves/protective clothing/eye protection/face protection. Contaminated work clothing should not be allowed out of the workplace. Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Use only outdoors or in a well-ventilated area. Do not breathe dust/fume/gas/mist/vapors/spray. Do not eat, drink or smoke when using this product.

**Response:** IF INHALED: Remove person to fresh air and keep comfortable for breathing. IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. IF ON SKIN: Wash with plenty of soap and water. If skin irritation or rash occurs: Get medical advice/attention. Immediately call a POISON CENTER/doctor. Specific treatment (see on this label). Wash contaminated clothing before reuse.

**Storage:** Store locked up. Store in a well-ventilated place. Keep container tightly closed.

**Disposal:** Dispose of contents/container to an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal.

**Hazard(s) not otherwise classified (HNOC):** None.

### 3. Composition/information on ingredients

**Mixtures**

| Chemical Identity                        | CAS number | Content in percent (%)* |
|------------------------------------------|------------|-------------------------|
| Crystalline Silica (Quartz)/ Silica Sand | 14808-60-7 | 20 - <50%               |
| Portland cement                          | 65997-15-1 | 20 - <50%               |
| Calcium Carbonate (Limestone)            | 1317-65-3  | 5 - <10%                |

|                 |              |          |
|-----------------|--------------|----------|
| Trade Secret    | Trade Secret | 5 - <10% |
| Fly Ash         | 68131-74-8   | 5 - <10% |
| Calcium sulfate | 7778-18-9    | 1 - <5%  |
| Dolomite        | 16389-88-1   | 1 - <5%  |

\* All concentrations are percent by weight unless ingredient is a gas. Gas concentrations are in percent by volume.

#### 4. First-aid measures

##### Description of necessary first-aid measures

|                                                      |                                                                                                                                                                                                                                                         |
|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>                                   | Move to fresh air.                                                                                                                                                                                                                                      |
| <b>Skin Contact:</b>                                 | Get medical attention. Destroy or thoroughly clean contaminated shoes. Immediately remove contaminated clothing and shoes and wash skin with soap and plenty of water. If skin irritation or an allergic skin reaction develops, get medical attention. |
| <b>Eye contact:</b>                                  | Immediately flush with plenty of water for at least 15 minutes. If easy to do, remove contact lenses. Call a physician or poison control center immediately.                                                                                            |
| <b>Ingestion:</b>                                    | Call a POISON CENTER/doctor if you feel unwell. Rinse mouth.                                                                                                                                                                                            |
| <b>Personal Protection for First-aid Responders:</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire.                                                                                                                                                           |

##### Most important symptoms/effects, acute and delayed

**Symptoms:** Prolonged or repeated contact with skin may cause redness, itching, irritation and eczema/chapping. Extreme irritation of eyes and mucous membranes, including burning and tearing. Respiratory tract irritation.

**Hazards:** No data available.

##### Indication of immediate medical attention and special treatment needed

**Treatment:** Symptoms may be delayed.

#### 5. Fire-fighting measures

**General Fire Hazards:** No unusual fire or explosion hazards noted.

##### Suitable (and unsuitable) extinguishing media

**Suitable extinguishing media:** Use fire-extinguishing media appropriate for surrounding materials.

**Unsuitable extinguishing media:** Do not use water jet as an extinguisher, as this will spread the fire.

**Specific hazards arising from the chemical:** During fire, gases hazardous to health may be formed.

##### Special protective equipment and precautions for fire-fighters

|                                                        |                                                                                               |
|--------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Special fire-fighting procedures:</b>               | No data available.                                                                            |
| <b>Special protective equipment for fire-fighters:</b> | Self-contained breathing apparatus and full protective clothing must be worn in case of fire. |

## 6. Accidental release measures

|                                                                             |                                                                                                                                                                                                   |
|-----------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Personal precautions, protective equipment and emergency procedures:</b> | See Section 8 of the SDS for Personal Protective Equipment. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Keep unauthorized personnel away. |
| <b>Accidental release measures:</b>                                         | In the event of a spill or accidental release, notify relevant authorities in accordance with all applicable regulations.                                                                         |
| <b>Methods and material for containment and cleaning up:</b>                | Collect spillage in containers, seal securely and deliver for disposal according to local regulations.                                                                                            |
| <b>Environmental Precautions:</b>                                           | Do not contaminate water sources or sewer. Prevent further leakage or spillage if safe to do so.                                                                                                  |

## 7. Handling and storage

### Handling

|                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Technical measures (e.g. Local and general ventilation):</b> | Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.                                                                                                                                                                                                                                                                                             |
| <b>Safe handling advice:</b>                                    | Ventilate well, avoid breathing vapors. Use approved respirator if air contamination is above accepted level. Use mechanical ventilation in case of handling which causes formation of dust. Wash hands thoroughly after handling. Do not handle until all safety precautions have been read and understood. Obtain special instructions before use. Use personal protective equipment as required. Do not get in eyes. Avoid contact with skin. Avoid contact with eyes, skin, and clothing. |
| <b>Contact avoidance measures:</b>                              | No data available.                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>Hygiene measures:</b>                                        | Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace.                                                                                                                                                                                                                  |

### Storage

|                                  |                    |
|----------------------------------|--------------------|
| <b>Safe storage conditions:</b>  | Store locked up.   |
| <b>Safe packaging materials:</b> | No data available. |

## 8. Exposure controls/personal protection

### Control Parameters

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**Occupational Exposure Limits**

| Chemical Identity                                                     | Type     | Exposure Limit Values                                    | Source                                                                                   |
|-----------------------------------------------------------------------|----------|----------------------------------------------------------|------------------------------------------------------------------------------------------|
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | TWA      | 0.05 mg/m3                                               | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (03 2016) |
|                                                                       | OSHA_ACT | 0.025 mg/m3                                              | US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053), as amended (03 2016) |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable dust.        | PEL      | 0.05 mg/m3                                               | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (03 2016)  |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable.             | TWA      | 2.4 millions<br>of particles<br>per cubic foot<br>of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                 |
|                                                                       | TWA      | 0.1 mg/m3                                                | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                 |
| Crystalline Silica (Quartz)/<br>Silica Sand - Respirable<br>fraction. | TWA      | 0.025 mg/m3                                              | US. ACGIH Threshold Limit Values, as amended (02 2020)                                   |
| Portland cement - Respirable<br>fraction.                             | TWA      | 1 mg/m3                                                  | US. ACGIH Threshold Limit Values, as amended (2011)                                      |
| Portland cement - Total dust.                                         | PEL      | 15 mg/m3                                                 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)  |
| Portland cement - Respirable<br>fraction.                             | PEL      | 5 mg/m3                                                  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)  |
| Portland cement                                                       | TWA      | 50 millions of<br>particles per<br>cubic foot of<br>air  | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (2000)                                 |
| Calcium Carbonate<br>(Limestone) - Total dust.                        | PEL      | 15 mg/m3                                                 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)  |
| Calcium Carbonate<br>(Limestone) - Respirable<br>fraction.            | PEL      | 5 mg/m3                                                  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)  |
| Calcium sulfate - Total                                               | REL      | 10 mg/m3                                                 | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)                           |
| Calcium sulfate - Respirable.                                         | REL      | 5 mg/m3                                                  | US. NIOSH: Pocket Guide to Chemical Hazards, as amended (2010)                           |
| Calcium sulfate - Total dust.                                         | TWA      | 15 mg/m3                                                 | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)                               |
| Calcium sulfate - Respirable<br>fraction.                             | TWA      | 5 mg/m3                                                  | US. OSHA Table Z-1-A (29 CFR 1910.1000), as amended (1989)                               |
| Calcium sulfate - Inhalable<br>fraction.                              | TWA      | 10 mg/m3                                                 | US. ACGIH Threshold Limit Values, as amended (2008)                                      |
| Calcium sulfate - Respirable<br>fraction.                             | PEL      | 5 mg/m3                                                  | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)  |
| Calcium sulfate - Total dust.                                         | PEL      | 15 mg/m3                                                 | US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000), as amended (02 2006)  |
| Calcium sulfate - Respirable<br>fraction.                             | TWA      | 15 millions of<br>particles per<br>cubic foot of<br>air  | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                              |
| Calcium sulfate - Total dust.                                         | TWA      | 50 millions of<br>particles per<br>cubic foot of<br>air  | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                              |
| Calcium sulfate - Respirable<br>fraction.                             | TWA      | 5 mg/m3                                                  | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                              |
| Calcium sulfate - Total dust.                                         | TWA      | 15 mg/m3                                                 | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (09 2016)                              |
| Dolomite - Inhalable                                                  | TWA      | 10 mg/m3                                                 | US. ACGIH Threshold Limit Values, as                                                     |



|                                  |     |                                                |                                                             |
|----------------------------------|-----|------------------------------------------------|-------------------------------------------------------------|
| particles.                       |     |                                                | amended (03 2016)                                           |
| Dolomite - Respirable particles. | TWA | 3 mg/m3                                        | US. ACGIH Threshold Limit Values, as amended (03 2016)      |
| Dolomite - Respirable fraction.  | TWA | 15 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016) |
| Dolomite - Total dust.           | TWA | 50 millions of particles per cubic foot of air | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016) |
|                                  | TWA | 15 mg/m3                                       | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016) |
| Dolomite - Respirable fraction.  | TWA | 5 mg/m3                                        | US. OSHA Table Z-3 (29 CFR 1910.1000), as amended (03 2016) |

| Chemical name                                                   | Type | Exposure Limit Values | Source                                                                                                                                                                   |
|-----------------------------------------------------------------|------|-----------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA  | 0.10 mg/m3            | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)                                                                       |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable dust.     | TWA  | 0.1 mg/m3             | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                                    |
| Crystalline Silica (Quartz)/ Silica Sand - Respirable fraction. | TWA  | 0.025 mg/m3           | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2020) |
| Portland cement - Total dust.                                   | TWA  | 10 mg/m3              | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                                    |
| Portland cement - Respirable dust.                              | TWA  | 5 mg/m3               | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                                    |
| Portland cement - Respirable.                                   | TWA  | 1 mg/m3               | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (06 2017) |
| Portland cement - Respirable fraction.                          | TWA  | 1 mg/m3               | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (08 2017)                                                                       |
| Calcium Carbonate (Limestone) - Total dust.                     | STEL | 20 mg/m3              | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
|                                                                 | TWA  | 10 mg/m3              | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |



|                                                      |     |          |                                                                                                                                                                          |
|------------------------------------------------------|-----|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Calcium Carbonate (Limestone) - Respirable fraction. | TWA | 3 mg/m3  | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium Carbonate (Limestone) - Total dust.          | TWA | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                                    |
| Calcium sulfate                                      | TWA | 10 mg/m3 | Canada. Alberta OELs (Occupational Health & Safety Code, Schedule 1, Table 2), as amended (07 2009)                                                                      |
| Calcium sulfate - Inhalable                          | TWA | 10 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (07 2007) |
| Calcium sulfate - Inhalable fraction.                | TWA | 10 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (11 2010)                                                                       |
| Calcium sulfate - Total dust.                        | TWA | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (03 2020)                                                    |
| Dolomite - Respirable fraction.                      | TWA | 3 mg/m3  | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| Dolomite - Total dust.                               | TWA | 10 mg/m3 | Canada. British Columbia OELs. (Occupational Exposure Limits for Chemical Biological Substances, Occupational Health and Safety Regulation 296/97, as amended) (05 2013) |
| Dolomite - Respirable fraction.                      | TWA | 3 mg/m3  | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)                                                                       |
| Dolomite - Inhalable fraction.                       | TWA | 10 mg/m3 | Canada. Ontario OELs. (Control of Exposure to Biological or Chemical Agents), as amended (06 2015)                                                                       |
| Dolomite - Total dust.                               | TWA | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                                    |
| Trade Secret - fibers, total dust                    | TWA | 10 mg/m3 | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                                    |
| Trade Secret - Fiber.                                | TWA | 5 mg/m3  | Canada. Quebec OELs. (Ministry of Labor - Regulation respecting occupational health and safety), as amended (09 2017)                                                    |

**Appropriate Engineering Controls**

Mechanical ventilation or local exhaust ventilation may be required. Observe good industrial hygiene practices. Observe occupational exposure limits and minimize the risk of inhalation of dust.

**Individual protection measures, such as personal protective equipment****Eye/face protection:**

Wear a full-face respirator, if needed. Wear safety glasses with side shields (or goggles) and a face shield.

**Skin Protection****Hand Protection:**

Additional Information: Use suitable protective gloves if risk of skin contact.

**Skin and Body Protection:**

Wear suitable protective clothing. Wear chemical-resistant gloves, footwear, and protective clothing appropriate for the risk of exposure. Contact health and safety professional or manufacturer for specific information.

|                                |                                                                                                                                                                                                                                                                              |
|--------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Respiratory Protection:</b> | In case of inadequate ventilation use suitable respirator. Seek advice from local supervisor.                                                                                                                                                                                |
| <b>Hygiene measures:</b>       | Observe good industrial hygiene practices. Wash hands before breaks and immediately after handling the product. Do not get in eyes. Wash contaminated clothing before reuse. Avoid contact with skin. Contaminated work clothing should not be allowed out of the workplace. |

## 9. Physical and chemical properties

### Appearance

|                                                              |                      |
|--------------------------------------------------------------|----------------------|
| <b>Physical state:</b>                                       | solid                |
| <b>Form:</b>                                                 | Powder               |
| <b>Color:</b>                                                | Gray                 |
| <b>Odor:</b>                                                 | Odorless             |
| <b>Odor threshold:</b>                                       | No data available.   |
| <b>pH:</b>                                                   | No data available.   |
| <b>Melting point/freezing point:</b>                         | No data available.   |
| <b>Initial boiling point and boiling range:</b>              | No data available.   |
| <b>Flash Point:</b>                                          | No data available.   |
| <b>Evaporation rate:</b>                                     | No data available.   |
| <b>Flammability (solid, gas):</b>                            | No                   |
| <b>Upper/lower limit on flammability or explosive limits</b> |                      |
| <b>Flammability limit - upper (%):</b>                       | No data available.   |
| <b>Flammability limit - lower (%):</b>                       | No data available.   |
| <b>Explosive limit - upper:</b>                              | No data available.   |
| <b>Explosive limit - lower:</b>                              | No data available.   |
| <b>Vapor pressure:</b>                                       | No data available.   |
| <b>Vapor density:</b>                                        | No data available.   |
| <b>Relative density:</b>                                     | 2.8                  |
| <b>Solubility(ies)</b>                                       |                      |
| <b>Solubility in water:</b>                                  | Miscible with water. |
| <b>Solubility (other):</b>                                   | No data available.   |
| <b>Partition coefficient (n-octanol/water):</b>              | No data available.   |
| <b>Auto-ignition temperature:</b>                            | No data available.   |
| <b>Decomposition temperature:</b>                            | No data available.   |
| <b>Viscosity:</b>                                            | No data available.   |

## 10. Stability and reactivity

|                                            |                                             |
|--------------------------------------------|---------------------------------------------|
| <b>Reactivity:</b>                         | No data available.                          |
| <b>Chemical Stability:</b>                 | Material is stable under normal conditions. |
| <b>Possibility of hazardous reactions:</b> | No data available.                          |

|                                          |                                                                                                 |
|------------------------------------------|-------------------------------------------------------------------------------------------------|
| <b>Conditions to avoid:</b>              | Avoid heat or contamination.                                                                    |
| <b>Incompatible Materials:</b>           | No data available.                                                                              |
| <b>Hazardous Decomposition Products:</b> | Thermal decomposition or combustion may liberate carbon oxides and other toxic gases or vapors. |

## 11. Toxicological information

### Information on likely routes of exposure

|                      |                                                                                                   |
|----------------------|---------------------------------------------------------------------------------------------------|
| <b>Inhalation:</b>   | In high concentrations, vapors, fumes or mists may irritate nose, throat and mucus membranes.     |
| <b>Skin Contact:</b> | May be harmful in contact with skin. Causes skin irritation. May cause an allergic skin reaction. |
| <b>Eye contact:</b>  | Causes serious eye damage.                                                                        |
| <b>Ingestion:</b>    | May be harmful if swallowed.                                                                      |

### Symptoms related to the physical, chemical and toxicological characteristics

|                      |                    |
|----------------------|--------------------|
| <b>Inhalation:</b>   | No data available. |
| <b>Skin Contact:</b> | No data available. |
| <b>Eye contact:</b>  | No data available. |
| <b>Ingestion:</b>    | No data available. |

### Information on toxicological effects

#### Acute toxicity (list all possible routes of exposure)

|                                                |                                                            |
|------------------------------------------------|------------------------------------------------------------|
| <b>Oral Product:</b>                           | ATEmix: 11,840.56 mg/kg                                    |
| <b>Dermal Product:</b>                         | Not classified for acute toxicity based on available data. |
| <b>Specified substance(s):</b><br>Trade Secret | LD 50 (Rat): > 2,000 mg/kg                                 |
| <b>Inhalation Product:</b>                     | ATEmix: 12.02 mg/l                                         |

#### Repeated dose toxicity

|                                                   |                                                                                               |
|---------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>Product:</b>                                   | No data available.                                                                            |
| <b>Specified substance(s):</b><br>Calcium sulfate | NOAEL (Rat(Male), Oral, 52 - 104 Weeks): 256 mg/kg Oral Experimental result, Supporting study |

NOAEL (Rat(female), Oral, 52 - 104 Weeks): 284 mg/kg Oral Experimental result, Supporting study  
NOAEL (Rat(Male), Oral, 13 Weeks): 886 mg/kg Oral Experimental result, Supporting study  
LOAEL (Rat(Male), Oral, 35 - 45 d): 237 mg/kg Oral Experimental result, Key study  
NOAEL (Rat(Male), Oral, 35 - 45 d): 79 mg/kg Oral Experimental result, Key study

#### **Skin Corrosion/Irritation**

**Product:** No data available.

##### **Specified substance(s):**

|                 |                                                  |
|-----------------|--------------------------------------------------|
| Trade Secret    | In vitro (EpiDerm tissue): Not irritant , 60 min |
| Fly Ash         | In vitro Not irritant , 60 min                   |
| Calcium sulfate | in vivo (Rabbit): Not irritant , 72 h            |

#### **Serious Eye Damage/Eye Irritation**

**Product:** No data available.

##### **Specified substance(s):**

|                 |                              |
|-----------------|------------------------------|
| Fly Ash         | Moderately irritating        |
| Calcium sulfate | Rabbit, 72 hrs: Not irritant |

#### **Respiratory or Skin Sensitization**

**Product:** No data available.

#### **Carcinogenicity**

**Product:** No data available.

#### **IARC Monographs on the Evaluation of Carcinogenic Risks to Humans:**

|                                                |                                             |
|------------------------------------------------|---------------------------------------------|
| Crystalline Silica<br>(Quartz)/ Silica<br>Sand | Overall evaluation: Carcinogenic to humans. |
|------------------------------------------------|---------------------------------------------|

#### **US. National Toxicology Program (NTP) Report on Carcinogens:**

|                                                |                               |
|------------------------------------------------|-------------------------------|
| Crystalline Silica<br>(Quartz)/ Silica<br>Sand | Known To Be Human Carcinogen. |
|------------------------------------------------|-------------------------------|

#### **US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended:**

|                                                |        |
|------------------------------------------------|--------|
| Crystalline Silica<br>(Quartz)/ Silica<br>Sand | Cancer |
|------------------------------------------------|--------|

### Germ Cell Mutagenicity

**In vitro**  
**Product:** No data available.

**In vivo**  
**Product:** No data available.

**Reproductive toxicity**  
**Product:** No data available.

**Specific Target Organ Toxicity - Single Exposure**  
**Product:** No data available.

**Specific Target Organ Toxicity - Repeated Exposure**  
**Product:** No data available.

#### Target Organs

Specific Target Organ Toxicity - Single Exposure: Respiratory tract irritation.

Specific Target Organ Toxicity - Repeated Exposure: Lung

**Aspiration Hazard**  
**Product:** No data available.

**Other effects:** Constituents of this product may include crystalline silica which, if in inhalable form, 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 minimis exposure to these impurities in inhalable form may be carcinogenic or cause other serious lung problems.

## 12. Ecological information

### Ecotoxicity:

#### Acute hazards to the aquatic environment:

**Fish**  
**Product:** No data available.

#### Specified substance(s):

Trade Secret LC 50 (Danio rerio, 96 h): > 100 mg/l Experimental result, Key study

Fly Ash LC 50 (Poecilia reticulata, 96 h): > 100 mg/l Experimental result, Key study

Calcium sulfate LC 50 (Pimephales promelas, 96 h): > 1,970 mg/l Experimental result, Weight of Evidence study

#### Aquatic Invertebrates

**Product:** No data available.

#### Specified substance(s):

Trade Secret EC 50 (Daphnia magna, 48 h): 5.4 mg/l experimental result Experimental result, Key study

Fly Ash EC 50 (Daphnia magna, 48 h): > 100 mg/l experimental result Experimental result, Key study

Calcium sulfate EC 50 (Daphnia magna, 48 h): 1,970 mg/l

#### Chronic hazards to the aquatic environment:

##### Fish

**Product:** No data available.

##### Aquatic Invertebrates

**Product:** No data available.

##### Toxicity to Aquatic Plants

**Product:** No data available.

#### Specified substance(s):

Fly Ash ErC 50 (Algae, 72 h): > 100 mg/l Experimental result, Key study

#### Persistence and Degradability

##### Biodegradation

**Product:** No data available.

##### BOD/COD Ratio

**Product:** No data available.

#### Bioaccumulative potential

##### Bioconcentration Factor (BCF)

**Product:** No data available.

#### Partition Coefficient n-octanol / water (log Kow)

**Product:** No data available.

**Mobility in soil:** No data available.

**Other adverse effects:** No data available.

### 13. Disposal considerations

|                                |                                                                                                                                                                         |
|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Disposal methods:</b>       | Dispose of waste at an appropriate treatment and disposal facility in accordance with applicable laws and regulations, and product characteristics at time of disposal. |
| <b>Contaminated Packaging:</b> | No data available.                                                                                                                                                      |

### 14. Transport information

**TDG:**

Not Regulated

**CFR / DOT:**

Not Regulated

**IMDG:**

Not Regulated

### 15. Regulatory information

**US Federal Regulations**

**TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)**

None present or none present in regulated quantities.

**US. Toxic Substances Control Act (TSCA) Section 5(a)(2) Final Significant New Use Rules (SNURs) (40 CFR 721, Subpt E)**

None present or none present in regulated quantities.

**US. OSHA Specifically Regulated Substances (29 CFR 1910.1001-1050), as amended**

| <u>Chemical Identity</u> | <u>OSHA hazard(s)</u> |
|--------------------------|-----------------------|
| Crystalline Silica       | kidney effects        |
| (Quartz)/ Silica Sand    | lung effects          |
|                          | immune system effects |
|                          | Cancer                |

**CERCLA Hazardous Substance List (40 CFR 302.4):**

None present or none present in regulated quantities.

**Superfund Amendments and Reauthorization Act of 1986 (SARA)**

**Hazard categories**

Immediate (Acute) Health Hazards  
Delayed (Chronic) Health Hazard  
Skin Corrosion or Irritation

Serious eye damage or eye irritation  
Respiratory or Skin Sensitization  
Carcinogenicity  
Specific target organ toxicity (single or repeated exposure)

**US. EPCRA (SARA Title III) Section 304 Extremely Hazardous Substances Reporting Quantities and the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) Hazardous Substances**

**US. EPCRA (SARA Title III Section 313 Toxic Chemical Release Inventory (TRI) Reporting**  
Not regulated.

**Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)**  
None present or none present in regulated quantities.

**Clean Water Act Section 311 Hazardous Substances (40 CFR 117.3)**  
None present or none present in regulated quantities.

**US State Regulations**

**US. California Proposition 65**



**WARNING**  
Cancer - [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov)

**International regulations**

**Montreal protocol**  
Not applicable

**Stockholm convention**  
Not applicable

**Rotterdam convention**  
Not applicable

**Kyoto protocol**  
Not applicable

**VOC:**  
Regulatory VOC (less water and exempt solvent) : 0 g/l  
VOC Method 310 : 0.00 %

**Inventory Status:**

|                                          |                                                                                        |
|------------------------------------------|----------------------------------------------------------------------------------------|
| Australia AICS:                          | One or more components in this product are not listed on or exempt from the Inventory. |
| EINECS, ELINCS or NLP:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan (ENCS) List:                       | One or more components in this product are not listed on or exempt from the Inventory. |
| China Inv. Existing Chemical Substances: | One or more components in this product are not listed on or exempt from the Inventory. |
| Korea Existing Chemicals Inv. (KECI):    | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada NDSL Inventory:                   | One or more components in this product are not listed on or exempt from the Inventory. |
| Philippines PICCS:                       | One or more components in this product are not listed on or exempt from the Inventory. |
| New Zealand Inventory of Chemicals:      | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan ISHL Listing:                      | One or more components in this product are not listed on or exempt from the Inventory. |
| Japan Pharmacopoeia Listing:             | One or more components in this product are not listed on or exempt from the Inventory. |
| Canada DSL Inventory List:               | All components in this product are listed on or exempt from the Inventory.             |
| US TSCA Inventory:                       | All components in this product are listed on or exempt from the Inventory.             |

|                                                                              |
|------------------------------------------------------------------------------|
| <b>16. Other information, including date of preparation or last revision</b> |
|------------------------------------------------------------------------------|

**Revision Date:** 11/12/2022

**Version #:** 2.1

**Further Information:** No data available.

**Disclaimer:** For Industrial Use Only. Keep out of Reach of Children. The hazard information herein is offered solely for the consideration of the user, subject to their own investigation of compliance with applicable regulations, including the safe use of the product under every foreseeable condition.