

### SECTION 1: IDENTIFICATION

#### 1.1. Product Identifier

**Product Form:** Mixture

**Product Name:** Deicing Agent

**Synonyms:** Calcium Sand, Calcium Sand M1000

#### 1.2. Intended Use of the Product

Calcium sand products are used for deicing and traction. DO NOT use this product for abrasive blasting. This material safety data sheet and the information contained herein were not developed for abrasive blasting.

#### 1.3. Name, Address, and Telephone of the Responsible Party

##### Company

Holcim US

8700 West Bryn Mawr Avenue, Suite 300

Chicago, IL 60631

Information: (888) 646-5246 (9am to 5pm CST)

Email: [us-sds-inquiries@holcim.com](mailto:us-sds-inquiries@holcim.com)

Website: [holcim.us](http://holcim.us)

#### 1.4. Emergency Telephone Number

**Emergency Number** : ChemTel LLC

1-800-255-3924 (US and Canada)

### SECTION 2: HAZARDS IDENTIFICATION

#### 2.1. Classification of the Substance or Mixture

##### GHS-US/CA Classification

Eye Irrit. 2 H319

Carc. 1A H350

STOT SE 3 H335

STOT RE 1 H372

Full text of hazard classes and H-statements : see section 16

#### 2.2. Label Elements

##### GHS-US/CA Labeling

##### Hazard Pictograms (GHS-US/CA)



##### Signal Word (GHS-US/CA)

: Danger

##### Hazard Statements (GHS-US/CA)

: H319 - Causes serious eye irritation.  
H335 - May cause respiratory irritation.  
H350 - May cause cancer (Inhalation).  
H372 - Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation).

##### Precautionary Statements (GHS-US/CA)

: P201 - Obtain special instructions before use.  
P202 - Do not handle until all safety precautions have been read and understood.  
P260 - Do not breathe dust.  
P264 - Wash hands, forearms, and other exposed areas thoroughly after handling.  
P270 - Do not eat, drink or smoke when using this product.  
P271 - Use only outdoors or in a well-ventilated area.  
P280 - Wear protective gloves, protective clothing, and eye protection.  
P304+P340 - IF INHALED: Remove person to fresh air and keep comfortable for

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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+P313 - If exposed or concerned: Get medical advice/attention.

P312 - Call a POISON CENTER or doctor if you feel unwell.

P314 - Get medical advice/attention if you feel unwell.

P337+P313 - If eye irritation persists: Get medical advice/attention.

P403+P233 - Store in a well-ventilated place. Keep container tightly closed.

P405 - Store locked up.

P501 - Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

### 2.3. Other Hazards

Exposure may aggravate pre-existing eye, skin, or respiratory conditions. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

### 2.4. Unknown Acute Toxicity (GHS-US/CA)

No data available

## SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

### 3.1. Substance

Not applicable

### 3.2. Mixture

| Name                | Synonyms                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Product Identifier   | % *     | GHS Ingredient Classification                        |
|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|---------|------------------------------------------------------|
| Quartz              | Quartz (SiO <sub>2</sub> ) / Silica, crystalline, quartz / Crystalline silica, quartz / .alpha.-Quartz / Silica, crystalline, .alpha.-quartz / Crystalline silica in the form of quartz / Quartz, silica / Quartz (respirable fraction) / Silica dust / Silica, crystalline-.alpha.quartz / Silica, quartz / Silica, .alpha.-quartz / Silicon dioxide / Silica, crystalline / Quartz (crystalline silica) / Silica dust, crystalline / QUARTZ POWDER / Silica, crystalline (quartz) | (CAS-No.) 14808-60-7 | 80 – 99 | Carc. 1A, H350<br>STOT SE 3, H335<br>STOT RE 1, H372 |
| Calcium chloride    | Calcium chloride (CaCl <sub>2</sub> ) / Calcium chloride, anhydrous / Calcium dichloride / Calcium chloride anhydrous                                                                                                                                                                                                                                                                                                                                                               | (CAS-No.) 10043-52-4 | 10 – 15 | Acute Tox. 4 (Oral), H302<br>Eye Irrit. 2A, H319     |
| Magnesium hydroxide | Magnesium dihydroxide / Magnesium hydroxide (Mg(OH) <sub>2</sub> ) / Milk of magnesia                                                                                                                                                                                                                                                                                                                                                                                               | (CAS-No.) 1309-42-8  | 10 – 15 | Not classified                                       |
| Sodium chloride     | Sea salt / Sodium chloride (NaCl) / Salt / Sodium salt of hydrochloric acid                                                                                                                                                                                                                                                                                                                                                                                                         | (CAS-No.) 7647-14-5  | 1 – 5   | Not classified                                       |
| Potassium chloride  | Potassium chloride (KCl) / Hydrochloric acid, potassium salt                                                                                                                                                                                                                                                                                                                                                                                                                        | (CAS-No.) 7447-40-7  | 1 – 5   | Not classified                                       |
| Magnesium chloride  | Magnesium chloride (MgCl <sub>2</sub> ) / Magnesium chloride, anhydrous / Magnesium dichloride / Magnesium chloride anhydrous                                                                                                                                                                                                                                                                                                                                                       | (CAS-No.) 7786-30-3  | 1 – 5   | Not classified                                       |

Full text of H-phrases: see section 16

\*Percentages are listed in weight by weight percentage (w/w%) for liquid and solid ingredients. Gas ingredients are listed in volume by volume percentage (v/v%).

## SECTION 4: FIRST AID MEASURES

### 4.1. Description of First-aid Measures

**General:** Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).

**Inhalation:** When symptoms occur: go into open air and ventilate suspected area. Obtain medical attention if breathing difficulty persists.

**Skin Contact:** Immediately drench affected area with water for at least 15 minutes. Remove contaminated clothing. If exposed or concerned: Get medical advice/attention.

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**Eye Contact:** Immediately rinse with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Obtain medical attention if irritation develops or persists.

**Ingestion:** Rinse mouth. Do NOT induce vomiting. Obtain medical attention.

### 4.2. Most Important Symptoms and Effects Both Acute and Delayed

**General:** Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation). May cause cancer by inhalation. . May cause respiratory irritation. Causes serious eye irritation.

**Inhalation:** Irritation of the respiratory tract and the other mucous membranes. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

**Skin Contact:** Prolonged exposure may cause skin irritation.

**Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects.

### 4.3. Indication of Any Immediate Medical Attention and Special Treatment Needed

If exposed or concerned, get medical advice and attention. If medical advice is needed, have product container or label at hand.

## SECTION 5: FIRE-FIGHTING MEASURES

### 5.1. Extinguishing Media

**Suitable Extinguishing Media:** Water spray, dry chemical, foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a heavy water stream. Use of heavy stream of water may spread fire.

### 5.2. Special Hazards Arising From the Substance or Mixture

**Fire Hazard:** Not considered flammable but may burn at high temperatures.

**Explosion Hazard:** Product is not explosive.

**Reactivity:** Hazardous reactions will not occur under normal conditions.

### 5.3. Advice for Firefighters

**Precautionary Measures Fire:** Exercise caution when fighting any chemical fire.

**Firefighting Instructions:** Use water spray or fog for cooling exposed containers.

**Protection During Firefighting:** Do not enter fire area without proper protective equipment, including respiratory protection.

**Hazardous Combustion Products:** Calcium oxides. Chlorides. Magnesium oxides. Potassium oxides. Silicon oxides. Sodium oxides.

### 5.4. Reference to Other Sections

Refer to Section 9 for flammability properties.

## SECTION 6: ACCIDENTAL RELEASE MEASURES

### 6.1. Personal Precautions, Protective Equipment and Emergency Procedures

**General Measures:** Do not handle until all safety precautions have been read and understood. Do not breathe dust. Do not get in eyes, on skin, or on clothing.

#### 6.1.1. For Non-Emergency Personnel

**Protective Equipment:** Use appropriate personal protective equipment (PPE).

**Emergency Procedures:** Evacuate unnecessary personnel.

#### 6.1.2. For Emergency Personnel

**Protective Equipment:** Equip cleanup crew with proper protection.

**Emergency Procedures:** Upon arrival at the scene, a first responder is expected to recognize the presence of dangerous goods, protect oneself and the public, secure the area, and call for the assistance of trained personnel as soon as conditions permit. Ventilate area.

### 6.2. Environmental Precautions

Prevent entry to sewers and public waters.

### 6.3. Methods and Materials for Containment and Cleaning Up

**For Containment:** Contain solid spills with appropriate barriers and prevent migration and entry into sewers or streams.

**Methods for Cleaning Up:** Clean up spills immediately and dispose of waste safely. Recover the product by vacuuming, shoveling or sweeping. Transfer spilled material to a suitable container for disposal. Contact competent authorities after a spill.

### 6.4. Reference to Other Sections

See Section 8 for exposure controls and personal protection and Section 13 for disposal considerations.

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### SECTION 7: HANDLING AND STORAGE

#### 7.1. Precautions for Safe Handling

**Additional Hazards When Processed:** Cutting, crushing or grinding crystalline silica-bearing materials may release respirable crystalline silica, a known carcinogen. Use all appropriate measures of dust control or suppression and Personal Protective.

**Precautions for Safe Handling:** Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Avoid contact with skin, eyes and clothing. Do not breathe dust. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work.

**Hygiene Measures:** Handle in accordance with good industrial hygiene and safety procedures.

#### 7.2. Conditions for Safe Storage, Including Any Incompatibilities

**Technical Measures:** Comply with applicable regulations.

**Storage Conditions:** Keep container closed when not in use. Store in a dry, cool place. Keep/Store away from direct sunlight, extremely high or low temperatures and incompatible materials. Store locked up/in a secure area.

**Incompatible Materials:** Aggregate dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

#### 7.3. Specific End Use(s)

Calcium sand products are used for deicing and traction. DO NOT use this product for abrasive blasting. This material safety data sheet and the information contained herein were not developed for abrasive blasting.

### SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1. Control Parameters

For substances listed in section 3 that are not listed here, there are no established exposure limits from the manufacturer, supplier, importer, or the appropriate advisory agency including: ACGIH (TLV), AIHA (WEEL), NIOSH (REL), OSHA (PEL), or Canadian provincial governments.

| Quartz (14808-60-7)           |                         |                                                                                                                                                                                                                                                                                                                  |
|-------------------------------|-------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| USA ACGIH                     | ACGIH OEL TWA           | 0.025 mg/m <sup>3</sup> (respirable particulate matter)                                                                                                                                                                                                                                                          |
| USA ACGIH                     | ACGIH chemical category | A2 - Suspected Human Carcinogen                                                                                                                                                                                                                                                                                  |
| USA OSHA                      | OSHA PEL (TWA) [1]      | 50 µg/m <sup>3</sup> (Respirable crystalline silica)                                                                                                                                                                                                                                                             |
| USA OSHA                      | OSHA PEL (TWA) [2]      | (250)/(%SiO <sub>2</sub> +5) mppcf TWA (respirable fraction)<br>(10)/(%SiO <sub>2</sub> +2) mg/m <sup>3</sup> TWA (respirable fraction)<br>(For any operations or sectors for which the respirable crystalline silica standard, 1910.1053, is stayed or otherwise not in effect, See 20 CFR 1910.1000 TABLE Z-3) |
| USA NIOSH                     | NIOSH REL (TWA)         | 0.05 mg/m <sup>3</sup> (respirable dust)                                                                                                                                                                                                                                                                         |
| USA IDLH                      | IDLH                    | 50 mg/m <sup>3</sup> (respirable dust)                                                                                                                                                                                                                                                                           |
| Alberta                       | OEL TWA                 | 0.025 mg/m <sup>3</sup> (respirable particulate)                                                                                                                                                                                                                                                                 |
| British Columbia              | OEL TWA                 | 0.025 mg/m <sup>3</sup> (respirable)                                                                                                                                                                                                                                                                             |
| Manitoba                      | OEL TWA                 | 0.025 mg/m <sup>3</sup> (respirable particulate matter)                                                                                                                                                                                                                                                          |
| New Brunswick                 | OEL TWA                 | 0.1 mg/m <sup>3</sup> (respirable fraction)                                                                                                                                                                                                                                                                      |
| Newfoundland & Labrador       | OEL TWA                 | 0.025 mg/m <sup>3</sup> (respirable particulate matter)                                                                                                                                                                                                                                                          |
| Nova Scotia                   | OEL TWA                 | 0.025 mg/m <sup>3</sup> (respirable particulate matter)                                                                                                                                                                                                                                                          |
| Nunavut                       | OEL TWA                 | 0.05 mg/m <sup>3</sup> (respirable fraction (Silica - crystalline))                                                                                                                                                                                                                                              |
| Northwest Territories         | OEL TWA                 | 0.05 mg/m <sup>3</sup> (respirable fraction (Silica - crystalline))                                                                                                                                                                                                                                              |
| Ontario                       | OEL TWA                 | 0.1 mg/m <sup>3</sup> (designated substances regulation-respirable fraction (Silica, crystalline))                                                                                                                                                                                                               |
| Prince Edward Island          | OEL TWA                 | 0.025 mg/m <sup>3</sup> (respirable particulate matter)                                                                                                                                                                                                                                                          |
| Québec                        | VEMP (OEL TWA)          | 0.1 mg/m <sup>3</sup> (respirable dust)                                                                                                                                                                                                                                                                          |
| Saskatchewan                  | OEL TWA                 | 0.05 mg/m <sup>3</sup> (respirable fraction (Silica - crystalline (Trydimite removed)))                                                                                                                                                                                                                          |
| Yukon                         | OEL TWA                 | 300 particle/mL (Silica - Quartz, crystalline)                                                                                                                                                                                                                                                                   |
| Calcium chloride (10043-52-4) |                         |                                                                                                                                                                                                                                                                                                                  |
| Ontario                       | OEL TWA                 | 5 mg/m <sup>3</sup>                                                                                                                                                                                                                                                                                              |

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### 8.2. Exposure Controls

**Appropriate Engineering Controls:** Emergency eye wash fountains and safety showers should be available in the immediate vicinity of any potential exposure. Ensure adequate ventilation, especially in confined areas. Ensure all national/local regulations are observed.

**Personal Protective Equipment:** Gloves. Protective clothing. Protective goggles. Insufficient ventilation: wear respiratory protection.



**Materials for Protective Clothing:** Chemically resistant materials and fabrics.

**Hand Protection:** Wear protective gloves.

**Eye and Face Protection:** Chemical safety goggles.

**Skin and Body Protection:** Wear suitable protective clothing.

**Respiratory Protection:** If exposure limits are exceeded or irritation is experienced, approved respiratory protection should be worn. In case of inadequate ventilation, oxygen deficient atmosphere, or where exposure levels are not known wear approved respiratory protection.

**Other Information:** When using, do not eat, drink or smoke.

## SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

### 9.1. Information on Basic Physical and Chemical Properties

|                                        |                                  |
|----------------------------------------|----------------------------------|
| Physical State                         | : Solid                          |
| Appearance                             | : White or Light Gray/Brown Sand |
| Odor                                   | : Odorless                       |
| Odor Threshold                         | : Not available                  |
| pH                                     | : 7 (in water)                   |
| Evaporation Rate                       | : Not available                  |
| Melting Point                          | : Not available                  |
| Freezing Point                         | : Not available                  |
| Boiling Point                          | : > 1000 °C (1832 °F)            |
| Flash Point                            | : Not available                  |
| Auto-ignition Temperature              | : Not available                  |
| Decomposition Temperature              | : Not available                  |
| Flammability (solid, gas)              | : Not available                  |
| Lower Flammable Limit                  | : Not available                  |
| Upper Flammable Limit                  | : Not available                  |
| Vapor Pressure                         | : Not available                  |
| Relative Vapor Density at 20°C         | : Not available                  |
| Relative Density                       | : Not available                  |
| Specific Gravity                       | : 2.7 (water = 1)                |
| Solubility                             | : Partially soluble.             |
| Partition Coefficient: N-Octanol/Water | : Not available                  |
| Viscosity                              | : Not available                  |

## SECTION 10: STABILITY AND REACTIVITY

**10.1. Reactivity:** Hazardous reactions will not occur under normal conditions.

**10.2. Chemical Stability:** Stable under recommended handling and storage conditions (see section 7).

**10.3. Possibility of Hazardous Reactions:** Hazardous polymerization will not occur.

**10.4. Conditions to Avoid:** Direct sunlight, extremely high or low temperatures, and incompatible materials.

**10.5. Incompatible Materials:** Aggregate dissolves in hydrofluoric acid, producing corrosive silicon tetrafluoride gas. Silicates react with powerful oxidizers such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride, and oxygen difluoride.

**10.6. Hazardous Decomposition Products:** Thermal decomposition may produce: Calcium oxides. Chloride fumes. Oxides of magnesium. Potassium oxides. Silicon oxides. Sodium oxides.

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### SECTION 11: TOXICOLOGICAL INFORMATION

#### 11.1. Information on Toxicological Effects - Product

**Acute Toxicity (Oral):** Not classified

**Acute Toxicity (Dermal):** Not classified

**Acute Toxicity (Inhalation):** Not classified

**LD50 and LC50 Data:** Not available

**Skin Corrosion/Irritation:** Not classified

**pH:** 7 (in water)

**Eye Damage/Irritation:** Causes serious eye irritation.

**pH:** 7 (in water)

**Respiratory or Skin Sensitization:** Not classified

**Germ Cell Mutagenicity:** Not classified

**Carcinogenicity:** May cause cancer (Inhalation).

**Specific Target Organ Toxicity (Repeated Exposure):** Causes damage to organs (lung/respiratory system) through prolonged or repeated exposure (Inhalation).

**Reproductive Toxicity:** Not classified

**Specific Target Organ Toxicity (Single Exposure):** May cause respiratory irritation.

**Aspiration Hazard:** Not classified

**Symptoms/Injuries After Inhalation:** Irritation of the respiratory tract and the other mucous membranes. Repeated or prolonged exposure to respirable (airborne) crystalline silica dust will cause lung damage in the form of silicosis. Symptoms will include progressively more difficult breathing, cough, fever, and weight loss.

**Symptoms/Injuries After Skin Contact:** Prolonged exposure may cause skin irritation.

**Symptoms/Injuries After Eye Contact:** Contact causes severe irritation with redness and swelling of the conjunctiva.

**Symptoms/Injuries After Ingestion:** Ingestion may cause adverse effects.

**Chronic Symptoms:** Long term exposure to respirable crystalline silica results in a significant risk of developing silicosis and other non-malignant respiratory disease, lung cancer, kidney effects, and immune system effects.

#### 11.2. Information on Toxicological Effects - Ingredient(s)

**LD50 and LC50 Data:**

|                                           |                                               |
|-------------------------------------------|-----------------------------------------------|
| <b>Quartz (14808-60-7)</b>                |                                               |
| LD50 Oral Rat                             | > 5000 mg/kg                                  |
| LD50 Dermal Rat                           | > 5000 mg/kg                                  |
| <b>Calcium chloride (10043-52-4)</b>      |                                               |
| LD50 Oral Rat                             | 1000 mg/kg                                    |
| LD50 Dermal Rabbit                        | > 5000 mg/kg                                  |
| <b>Magnesium hydroxide (1309-42-8)</b>    |                                               |
| LD50 Oral Rat                             | 8500 mg/kg                                    |
| <b>Magnesium chloride (7786-30-3)</b>     |                                               |
| LD50 Oral Rat                             | 2800 mg/kg                                    |
| LD50 Dermal Rat                           | > 2000 mg/kg (No deaths)                      |
| <b>Potassium chloride (7447-40-7)</b>     |                                               |
| LD50 Oral Rat                             | 3020 mg/kg (Species: Wistar)                  |
| <b>Sodium chloride (7647-14-5)</b>        |                                               |
| LD50 Oral Rat                             | 3550 mg/kg (Species: Wistar)                  |
| LD50 Dermal Rabbit                        | > 10000 mg/kg (Species: New Zealand White)    |
| LC50 Inhalation Rat                       | > 42 g/m <sup>3</sup> (Exposure time: 1 h)    |
| <b>Quartz (14808-60-7)</b>                |                                               |
| IARC Group                                | 1                                             |
| National Toxicology Program (NTP) Status  | Known Human Carcinogens.                      |
| OSHA Hazard Communication Carcinogen List | In OSHA Hazard Communication Carcinogen list. |

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### SECTION 12: ECOLOGICAL INFORMATION

#### 12.1. Toxicity

Ecology - General: Not classified.

| Calcium chloride (10043-52-4)   |                                                                                             |
|---------------------------------|---------------------------------------------------------------------------------------------|
| LC50 Fish 1                     | 10650 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                    |
| EC50 - Crustacea [1]            | 2280000 – 3948000 µg/l (Exposure time: 48 h - Species: Daphnia magna)                       |
| Magnesium hydroxide (1309-42-8) |                                                                                             |
| LC50 Fish 1                     | 511.31 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])                   |
| Magnesium chloride (7786-30-3)  |                                                                                             |
| LC50 Fish 1                     | 1970 – 3880 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])              |
| EC50 - Crustacea [1]            | 140 mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])                            |
| Potassium chloride (7447-40-7)  |                                                                                             |
| LC50 Fish 1                     | 1060 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                     |
| EC50 - Crustacea [1]            | 825 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                     |
| LC50 Fish 2                     | 750 (750 – 1020) mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])         |
| Sodium chloride (7647-14-5)     |                                                                                             |
| LC50 Fish 1                     | 5560 (5560 – 6080) mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [flow-through]) |
| EC50 - Crustacea [1]            | 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)                                    |
| LC50 Fish 2                     | 12946 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])                    |
| EC50 - Crustacea [2]            | 340.7 (340.7 – 469.2) mg/l (Exposure time: 48 h - Species: Daphnia magna [Static])          |
| NOEC Chronic Fish               | 252 mg/l (Species: Pimephales promelas)                                                     |

#### 12.2. Persistence and Degradability

| Deicing Agent                 |                  |
|-------------------------------|------------------|
| Persistence and Degradability | Not established. |

#### 12.3. Bioaccumulative Potential

| Deicing Agent                 |                      |
|-------------------------------|----------------------|
| Bioaccumulative Potential     | Not established.     |
| Calcium chloride (10043-52-4) |                      |
| BCF Fish 1                    | (no bioaccumulation) |
| Sodium chloride (7647-14-5)   |                      |
| BCF Fish 1                    | (no bioaccumulation) |

12.4. Mobility in Soil Not available

#### 12.5. Other Adverse Effects

Other Information: Avoid release to the environment.

### SECTION 13: DISPOSAL CONSIDERATIONS

#### 13.1. Waste treatment methods

**Waste Disposal Recommendations:** Dispose of contents/container in accordance with local, regional, national, territorial, provincial, and international regulations.

**Ecology - Waste Materials:** Avoid release to the environment.

### SECTION 14: TRANSPORT INFORMATION

The shipping description(s) stated herein were prepared in accordance with certain assumptions at the time the SDS was authored, and can vary based on a number of variables that may or may not have been known at the time the SDS was issued.

- 14.1. In Accordance with DOT Not regulated for transport
- 14.2. In Accordance with IMDG Not regulated for transport
- 14.3. In Accordance with IATA Not regulated for transport
- 14.4. In Accordance with TDG Not regulated for transport

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### SECTION 15: REGULATORY INFORMATION

#### 15.1. US Federal Regulations

|                                                                           |                                                                                                                                                                         |
|---------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Deicing Agent</b>                                                      |                                                                                                                                                                         |
| <b>SARA Section 311/312 Hazard Classes</b>                                | Health hazard - Specific target organ toxicity (single or repeated exposure)<br>Health hazard - Carcinogenicity<br>Health hazard - Serious eye damage or eye irritation |
| <b>Quartz (14808-60-7)</b>                                                |                                                                                                                                                                         |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                                                                                                                         |
| <b>Calcium chloride (10043-52-4)</b>                                      |                                                                                                                                                                         |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                                                                                                                         |
| <b>Magnesium hydroxide (1309-42-8)</b>                                    |                                                                                                                                                                         |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                                                                                                                         |
| <b>Magnesium chloride (7786-30-3)</b>                                     |                                                                                                                                                                         |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                                                                                                                         |
| <b>Potassium chloride (7447-40-7)</b>                                     |                                                                                                                                                                         |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                                                                                                                         |
| <b>Sodium chloride (7647-14-5)</b>                                        |                                                                                                                                                                         |
| Listed on the United States TSCA (Toxic Substances Control Act) inventory |                                                                                                                                                                         |

#### 15.2. US State Regulations

##### California Proposition 65

 **WARNING:** This product can expose you to Quartz, which is known to the State of California to cause cancer. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).

| Chemical Name (CAS No.) | Carcinogenicity | Developmental Toxicity | Female Reproductive Toxicity | Male Reproductive Toxicity |
|-------------------------|-----------------|------------------------|------------------------------|----------------------------|
| Quartz (14808-60-7)     | X               |                        |                              |                            |

|                                                            |
|------------------------------------------------------------|
| <b>Quartz (14808-60-7)</b>                                 |
| U.S. - New Jersey - Right to Know Hazardous Substance List |
| U.S. - Pennsylvania - RTK (Right to Know) List             |
| U.S. - Massachusetts - Right To Know List                  |

#### 15.3. Canadian Regulations

|                                                       |
|-------------------------------------------------------|
| <b>Quartz (14808-60-7)</b>                            |
| Listed on the Canadian DSL (Domestic Substances List) |
| <b>Calcium chloride (10043-52-4)</b>                  |
| Listed on the Canadian DSL (Domestic Substances List) |
| <b>Magnesium hydroxide (1309-42-8)</b>                |
| Listed on the Canadian DSL (Domestic Substances List) |
| <b>Magnesium chloride (7786-30-3)</b>                 |
| Listed on the Canadian DSL (Domestic Substances List) |
| <b>Potassium chloride (7447-40-7)</b>                 |
| Listed on the Canadian DSL (Domestic Substances List) |
| <b>Sodium chloride (7647-14-5)</b>                    |
| Listed on the Canadian DSL (Domestic Substances List) |

### SECTION 16: OTHER INFORMATION, INCLUDING DATE OF PREPARATION OR LAST REVISION

**Date of Preparation or Latest Revision** : 03/12/2022

**Revision**

**Other Information** : This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200 and Canada's Hazardous Products Regulations (HPR) SOR/2015-17.



# Deicing Agent

## Safety Data Sheet

According To Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules And Regulations And According To The Hazardous Products Regulation (February 11, 2015).

### GHS Full Text Phrases:

|                     |                                                                                            |
|---------------------|--------------------------------------------------------------------------------------------|
| Acute Tox. 4 (Oral) | Acute toxicity (oral) Category 4                                                           |
| Carc. 1A            | Carcinogenicity Category 1A                                                                |
| Eye Irrit. 2        | Serious eye damage/eye irritation Category 2                                               |
| Eye Irrit. 2A       | Serious eye damage/eye irritation Category 2A                                              |
| STOT RE 1           | Specific target organ toxicity (repeated exposure) Category 1                              |
| STOT SE 3           | Specific target organ toxicity — Single exposure, Category 3, Respiratory tract irritation |
| H302                | Harmful if swallowed                                                                       |
| H319                | Causes serious eye irritation                                                              |
| H335                | May cause respiratory irritation                                                           |
| H350                | May cause cancer                                                                           |
| H372                | Causes damage to organs through prolonged or repeated exposure                             |

## Indication of Changes

| Section | Change                                                                    | Date Changed | Version |
|---------|---------------------------------------------------------------------------|--------------|---------|
| 1       | Modified responsible party information, logo & emergency telephone number | 03/12/2022   | 3.1     |

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