

## Section 1 Identification

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 "cutting edge science for the classroom"

221 Rochester Street  
 Avon, NY 14414-9409  
 (585) 226-6177

CHEMTREC 24 Hour Emergency  
 Phone Number (800) 424-9300  
 For laboratory and industrial use only.  
 Not for drug, food or household use.

Product SANDSTONE

Synonyms Aggregate

## Section 2 Hazards identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: WARNING

Pictograms: GHS08

Target organs: Central nervous system, Respiratory system, Eyes, Skin



GHS Classification:

\*STOT-RE (Category 2)

GHS Label information: Hazard statement:

\*H373: May cause damage to organs (*lungs*) through prolonged or repeated exposure (*inhalation*).

\* Respirable dust particles containing silicon dioxide may be generated by crushing. There are no known hazards associated with this material when used as recommended.

Precautionary statement:

P260: Do not breathe dust.

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

P501: Dispose of contents/container to a licensed chemical disposal agency in accordance with local/regional/national regulations.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / information on ingredients

| Chemical Name   | CAS #      | %      | EINECS        |
|-----------------|------------|--------|---------------|
| Silicon dioxide | 14808-60-7 | 77-79% | 231-545-4     |
| Calcium oxide   | 1305-78-8  | 5-6%   | 215-138-9     |
| Aluminum oxide  | 1344-28-1  | 4-5%   | None assigned |
| Potassium oxide | 12136-45-7 | 1-2%   | None assigned |
| Ferric oxide    | 1309-37-1  | 1-2%   | None assigned |
| Ferrous oxide   | 1345-25-1  | 1-2%   | None assigned |
| Magnesium oxide | 1309-48-4  | 1-2%   | 215-171-9     |
| Sodium oxide    | 1313-59-3  | <1%    | 235-641-7     |

## Section 4 First aid measures

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** PROLONGED INHALATION OF PARTICULATE DUST MAY BE HARMFUL. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY CAUSE ABRASIONS. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

**Suitable Extinguishing Media:** Product will not burn or support fire. Use any media suitable for extinguishing supporting fire

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** None known.

## Section 6 Accidental release measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.



**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area.

**Section 8 Exposure controls / personal protection**

| Exposure Limits: | Chemical Name                      | ACGIH (TLV)                                  | OSHA (PEL)       | NIOSH (REL)      |
|------------------|------------------------------------|--|------------------|------------------|
|                  | Particles not otherwise classified | TWA: 5 mg/m <sup>3</sup> respirable fraction | None established | None established |

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

|  |  |   |
|--|--|---|
| <b>Appearance:</b> Solid. Multi-colored angular pieces.<br><b>Odor:</b> No odor.<br><b>Odor threshold:</b> Data not available.<br><b>pH:</b> Data not available.<br><b>Melting / Freezing point:</b> Data not available<br><b>Boiling point:</b> Data not available<br><b>Flash point:</b> Not flammable | <b>Evaporation rate ( = 1):</b> Not applicable<br><b>Flammability (solid/gas):</b> Data not available.<br><b>Explosion limits: Lower / Upper:</b> Not flammable<br><b>Vapor pressure (mm Hg):</b> Data not available<br><b>Vapor density (Air = 1):</b> Data not available<br><b>Relative density (Specific gravity):</b> 2.5-2.7<br><b>Solubility(ies):</b> Insoluble in water. | <b>Partition coefficient:</b> Not applicable<br><b>Auto-ignition temperature:</b> Not applicable<br><b>Decomposition temperature:</b> Data not available.<br><b>Viscosity:</b> Data not available.<br><b>Molecular formula:</b> Mixture<br><b>Molecular weight:</b> Mixture |
|--|--|---|

**Section 10 Stability and reactivity**

**Chemical stability:** Stable  
**Hazardous polymerization:** Will not occur.  
**Conditions to avoid:** Contact with incompatible materials.  
**Incompatible materials:** Strong oxidizing agents such as fluorine, boron trifluoride, chlorine trifluoride, manganese trifluoride and oxygen difluoride may cause fire and/or explosion. Silica dissolves in hydrofluoric acid producing a corrosive gas, silicon tetrafluoride.  
**Hazardous decomposition products:** Silica containing respirable dust particles may be generated by handling. When heated, quartz is slowly transformed into tridymite (>860°C/1580°F) and cristobalite (>1470°/2678°F).

**Section 11 Toxicological information**

**Acute toxicity:** Data not available  
**Skin corrosion/irritation:** Data not available  
**Serious eye damage/irritation:** Data not available  
**Respiratory or skin sensitization:** Data not available  
**Germ cell mutagenicity:** Data not available  
**Carcinogenicity:** Data not available  
**NTP:** Known to be a human carcinogen (respirable). [crystalline silica]  
**IARC classified:** Group 1: Carcinogenic to humans. [crystalline silica]  
**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.  
**Ca Prop 65:** ⚠️ **WARNING!** This product can expose you to a chemical, crystalline silica, which is known to the State of California to cause cancer.  
**Reproductive toxicity:** Data not available  
**STOT-single exposure:** Data not available  
**STOT-repeated exposure:** Inhalation - May cause damage to organs through prolonged or repeated exposure. [crystalline silica]  
**Aspiration hazard:** Data not available  
**Potential health effects:**  
**Inhalation:** Brick dust may cause congestion and irritation in nasal and respiratory passages.  
**Ingestion:** Expected to be practically non-toxic. Ingestion of large amounts may cause gastrointestinal irritation and blockage.  
**Skin:** May cause abrasions.  
**Eyes:** May cause mild to severe irritation by abrasion with dust or chips.  
**Signs and symptoms of exposure:** Prolonged inhalation of particulate dust, may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis.  
**Additional information:** RTECS #: None listed

**Section 12 Ecological information**

**Toxicity to fish:** No data available  
**Toxicity to daphnia and other aquatic invertebrates:** No data available  
**Toxicity to algae:** No data available  
**Persistence and degradability:** No data available  
**Bioaccumulative potential:** No data available  
**Mobility in soil:** No data available  
**PBT and vPvB assessment:** No data available  
**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

**UN/NA number:** Not applicable  
**Hazard class:** Not applicable  
**Exceptions:** Not applicable  
**Shipping name:** Not Regulated  
**Packing group:** Not applicable  
**2020 ERG Guide #:** Not applicable  
**Reportable Quantity:** No  
**Marine pollutant:** No

**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

| Component | TSCA       | CERLCA (RQ) | RCRA code  | DSL        | NDSL       | CA Prop 65   |
|-----------|------------|-------------|------------|------------|------------|--|
| Sandstone | Not listed | Not listed  | Not listed | Not listed | Not listed | ⚠️ <b>WARNING -Cancer -</b><br>www.P65Warnings.ca.gov. |

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



## Section 1 Identification

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CHEMTREC 24 Hour Emergency  
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 Not for drug, food or household use.

|         |              |
|---------|--------------|
| Product | MILKY QUARTZ |
|---------|--------------|

|          |        |
|----------|--------|
| Synonyms | Quartz |
|----------|--------|

## Section 2 Hazards identification

Signal word: WARNING

Pictograms: GHS08

Target organs: Lungs



GHS Classification:  
 \*STOT-RE (Category 2)

GHS Label information: Hazard statement:  
 \*H373: May cause damage to organs (*lungs*) through prolonged or repeated exposure (*inhalation*).

\* Respirable dust particles containing silicon dioxide may be generated by crushing. There are no known hazards associated with this material when used as recommended.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - Not Known

Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / information on ingredients

| Chemical Name | CAS #      | %    | EINECS    |
|---------------|------------|------|-----------|
| Quartz        | 14808-60-7 | >99% | 238-878-4 |

## Section 4 First aid measures

**INGESTION:** Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** RESPIRABLE CRYSTALLINE SILICA MAY BE HARMFUL IF INHALED. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE CORNEAL ABRASIONS. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

**Suitable Extinguishing Media:** Sand will not burn or support fire. Use any media suitable for extinguishing supporting fire

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool..

**Specific Hazards:** None known.

## Section 6 Accidental release measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.



**Section 7 Handling and storage**

**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area.

**Section 8 Exposure controls / personal protection**

| Exposure Limits: | Chemical Name                         | ACGIH (TLV)                                  | OSHA (PEL)                                | NIOSH (REL)                                 |
|------------------|---------------------------------------|--|---|---|
|                  | Silica, crystalline, $\alpha$ -quartz | TWA: 0.025 mg/m <sup>3</sup> respirable (A2) | TWA: 10 mg/m <sup>3</sup> respirable dust | TWA: 0.05 mg/m <sup>3</sup> respirable dust |

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

**Section 9 Physical and chemical properties**

|  |   |  |
|--|---|--|
| <b>Appearance:</b> Solid, large white opaque crystals<br><b>Odor:</b> No odor.<br><b>Odor threshold:</b> Data not available.<br><b>pH:</b> Data not available.<br><b>Melting / Freezing point:</b> 1610°C (3110°F)<br><b>Boiling point:</b> 2230°C (4046°F)<br><b>Flash point:</b> Not flammable | <b>Evaporation rate ( = 1):</b> Not applicable<br><b>Flammability (solid/gas):</b> Data not available.<br><b>Explosion limits: Lower / Upper:</b> Not flammable<br><b>Vapor pressure (mm Hg):</b> Data not available<br><b>Vapor density (Air = 1):</b> Data not available<br><b>Relative density (Specific gravity):</b> 2.65<br><b>Solubility(ies):</b> Insoluble in water. | <b>Partition coefficient:</b> Not applicable<br><b>Auto-ignition temperature:</b> Not applicable<br><b>Decomposition temperature:</b> Data not available.<br><b>Viscosity:</b> Data not available.<br><b>Molecular formula:</b> SiO <sub>2</sub><br><b>Molecular weight:</b> 60.09 |
|--|---|--|

**Section 10 Stability and reactivity**

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Avoid contact with incompatible materials.

**Incompatible materials:** Contact with powerful oxidizing agents such as fluorine, chlorine trifluoride, manganese trioxide and oxygen difluoride may cause fire.

**Hazardous decomposition products:** Will dissolve in hydrofluoric acid and produce silicon tetrafluoride, a corrosive gas.

**Section 11 Toxicological information**

**Acute toxicity:** Oral-rat LD50: 500 mg/kg

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** Known to be a human carcinogen (respirable). [Quartz]

**IARC classified:** Group 1: Carcinogenic to humans. [Quartz]

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Ca Prop 65:** ⚠️ **WARNING!** This product can expose you to a chemical, crystalline silica, which is known to the State of California to cause cancer.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Inhalation - May cause damage to organs through prolonged or repeated exposure. [Quartz]

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** May be harmful if inhaled. May cause respiratory tract irritation.

**Ingestion:** May be harmful if swallowed.

**Skin:** May cause transient irritation.

**Eyes:** May cause transient irritation.

**Signs and symptoms of exposure:** Prolonged inhalation of crystalline silica may result in silicosis, a disabling pulmonary fibrosis characterized by fibrotic changes and miliary nodules in the lungs, a dry cough, shortness of breath, emphysema, decreased chest expansion, and increased susceptibility to tuberculosis.

**Additional information:** RTECS #: VV7330000

**Section 12 Ecological information**

**Toxicity to fish:** No data available

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

**Section 13 Disposal considerations**

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

**Section 14 Transport information**

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Not applicable

**2020 ERG Guide #** Not applicable

**Section 15 Regulatory information**

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

| Component | TSCA   | CERCLA (RQ) | RCRA code  | DSL    | NDSL       | CA Prop 65   |
|-----------|--------|-------------|------------|--------|------------|--|
| Quartz    | Listed | Not listed  | Not listed | Listed | Not listed | ⚠️ <b>WARNING -Cancer -</b><br>www.P65Warnings.ca.gov. |

**Section 16 Other information**

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



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|                 |   |
|-----------------|---|
| <b>Product</b>  | CALCITE                                   |
| <b>Synonyms</b> | Limestone, Precipitated Calcium Carbonate |

**Section 2 Hazards identification**

This substance or mixture has not been classified at this time according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

**Signal word:** Not Classified  
**Pictograms:** Not Classified  
**Target organs:** None known.

**GHS Classification:** Not Classified

**GHS Label information:**  
**Hazard statement:** Not Classified

**Precautionary statement(s):**

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

**Hazards not otherwise classified:**

Health hazards not otherwise classified (HHNOC) - pas connu  
 Physical hazards not otherwise classified (PHNOC) - pas connu

**Section 3 Composition / information on ingredients**

| Chemical Name | CAS #    | %    | EINECS    |
|---------------|----------|------|-----------|
| Calcite       | 471-34-1 | 100% | 603-785-3 |

**Section 4 First aid measures**

**INGESTION:** Call physician or Poison Control Center immediately. Rinse mouth with water. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** May cause transient irritation. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

**Section 5 Fire fighting measures**

**Extinguishing Media:** Use any media suitable for extinguishing supporting fire. Use water, dry chemical foam, carbon dioxide, or alcohol resistant foam.

**General information:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Section 6 Accidental release measures**

Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation. Recover for use if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water. Avoid runoff into storm sewers and ditches which lead to waterways.



Read label on container before using. Do not wear contact lenses when working with chemicals. Keep container tightly closed. Keep out of reach of children. Use with adequate ventilation. Wash thoroughly after handling.

**Handling:** Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion. Do not inhale dusts. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances.

## Section 8 Exposure controls / personal protection

| Exposure Limits: | Chemical Name | ACGIH (TLV)       | OSHA (PEL)        | NIOSH (REL)       |
|------------------|---------------|-------------------|-------------------|-------------------|
|                  | Calcite       | None established. | None established. | None established. |

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical and chemical properties

|  |  |   |
|--|--|---|
| <b>Appearance:</b> Solid white powder<br><b>Odor:</b> No odor<br><b>Odor threshold:</b> Data not available<br><b>pH:</b> Data not available<br><b>Melting/Freezing point:</b> 825°C (1517°F)<br><b>Boiling point:</b> Data not available<br><b>Flash point:</b> Data not available | <b>Evaporation rate ( = 1):</b> Data not available<br><b>Flammability (solid/gas):</b> Data not available<br><b>Explosion limits: Upper / Lower:</b> Data not available<br><b>Vapor pressure (mm Hg):</b> Data not available<br><b>Vapor density (Air = 1):</b> Data not available<br><b>Relative density (Specific gravity):</b> 2.7- 2.95<br><b>Solubility(ies):</b> 0.001 g/100ml | <b>Partition coefficient: (n-octanol / water):</b> Data not available<br><b>Auto-ignition temperature:</b> Data not available<br><b>Decomposition temperature:</b> Data not available<br><b>Viscosity:</b> Data not available<br><b>Molecular formula:</b> CaCO <sub>3</sub><br><b>Molecular weight:</b> 100.09 |
|--|--|---|

## Section 10 Stability and reactivity

**Chemical stability:** Stable

**Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Excessive temperatures

**Incompatibilities with other materials:** Incompatible with acids, flourine, ammonium salts, alum

**Hazardous decomposition products:** Carbon dioxide, Calcium oxides

## Section 11 Toxicological information

**Acute toxicity:** Data not available

**Skin corrosion/irritation:** No skin irritation

**Serious eye damage/irritation:** No eye irritation

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

NTP: No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

OSHA: No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

Ca Prop 65: This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

Inhalation: No adverse health effects expected from inhalation.

Ingestion: No adverse health effects expected by ingestion.

Skin: Not expected to be a health hazard from skin exposure.

Eyes: Not expected to be a health hazard.

**Signs and symptoms of exposure:** Contact with eyes may cause transient irritation. To the best of our knowledge the chemical, physical and toxicological properties have not been thoroughly investigated. Specific data is not available. Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: No data available

## Section 12 Ecological information

**Toxicity to fish:** No data available

**Toxicity to daphnia and other aquatic invertebrates:** No data available

**Toxicity to algae:** No data available

**Persistence and degradability:** No data available

**Bioaccumulative potential:** No data available

**Mobility in soil:** No data available

**PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport information

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Not applicable

**2020 ERG Guide #** Not applicable

## Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

| Component | TSCA   | CERLCA (RQ) | RCRA code  | DSL    | NDSL       | CA Prop 65   |
|-----------|--------|-------------|------------|--------|------------|--|
| Calcite   | Listed | Not listed  | Not listed | Listed | Not Listed | This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. |

## Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.



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|         |                            |
|---------|----------------------------|
| Product | CALCIUM SULFATE, DIHYDRATE |
|---------|----------------------------|

|          |              |
|----------|--------------|
| Synonyms | Gypsum Lumps |
|----------|--------------|

## Section 2 Hazards identification

This substance or mixture has not been classified as hazardous according to the Globally Harmonized System (GHS) of Classification and Labeling of Chemicals.

Signal word: None required  
 Pictograms: No symbol required  
 Target organs: None known

GHS Classification: None required  
 GHS Label information: Hazard statement: None required  
 Precautionary statement: None required

## Supplemental information:

Do not breathe dust. Do not get in eyes, on skin, or on clothing. Wear protective gloves/protective clothing/eye protection/face protection. Wash hands thoroughly after handling. Get medical attention if you feel unwell.

Hazards not otherwise classified:

Health hazards not otherwise classified (HHNOC) - Not Known  
 Physical hazards not otherwise classified (PHNOC) - Not Known

## Section 3 Composition / information on ingredients

| Chemical Name              | CAS #      | %    | EINECS                |
|----------------------------|------------|------|-----------------------|
| Calcium sulfate, dihydrate | 10101-41-4 | >90% | 231-900-3 [anhydrous] |

## Section 4 First aid measures

**INGESTION:** MAY BE HARMFUL IF SWALLOWED. Call physician or Poison Control Center immediately. Induce vomiting only if advised by appropriate medical personnel. Never give anything by mouth to an unconscious person.

**INHALATION:** MAY BE HARMFUL IF INHALED. MAY CAUSE RESPIRATORY TRACT IRRITATION. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

**EYE CONTACT:** MAY CAUSE EYE IRRITATION. Check for and remove contact lenses. Flush thoroughly with water for at least 15 minutes, lifting upper and lower eyelids occasionally. Get immediate medical attention.

**SKIN ABSORPTION:** MAY BE HARMFUL IF ABSORBED THROUGH SKIN. MAY CAUSE SKIN IRRITATION. Remove contaminated clothing. Flush thoroughly with mild soap and water. If irritation occurs, get medical attention.

## Section 5 Fire fighting measures

**Suitable Extinguishing Media:** Use any media suitable for extinguishing supporting fire.

**Protective Actions for Fire-fighters:** In fire conditions, wear a NIOSH/MSHA-approved self-contained breathing apparatus and full protective gear. Use water spray to keep fire-exposed containers cool.

**Specific Hazards:** During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

## Section 6 Accidental release measures

**Personal Precautions:** Evacuate personnel to safe area. Use proper personal protective equipment as indicated in Section 8. Provide adequate ventilation.

**Environmental Precautions:** Avoid runoff into storm sewers and ditches which lead to waterways.

**Containment and Cleanup:** Recover for reuse if not contaminated. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.



**Precautions for Safe Handling:** Read label on container before using. Do not wear contact lenses when working with chemicals. Keep out of reach of children. Avoid contact with eyes, skin and clothing. Do not inhale dusts. Use with adequate ventilation. Avoid ingestion. Wash thoroughly after handling. Remove and wash clothing before reuse.

**Conditions for Safe Storage:** Store in a cool, dry, well-ventilated area away from incompatible substances. Protect from moisture.

## Section 8 Exposure controls / personal protection

| Exposure Limits: | Chemical Name   | ACGIH (TLV)               | OSHA (PEL)                           | NIOSH (REL)                          |
|------------------|-----------------|---------------------------|--------------------------------------|--------------------------------------|
|                  | Calcium sulfate | TWA: 10 mg/m <sup>3</sup> | TWA: 15 mg/m <sup>3</sup> total dust | TWA: 10 mg/m <sup>3</sup> total dust |

**Engineering controls:** Facilities storing or utilizing this material should be equipped with an eyewash facility and a safety shower and fire extinguishing material. Personnel should wear safety glasses, goggles, or faceshield, lab coat or apron, appropriate protective gloves. Use adequate ventilation to keep airborne concentrations low.

**Respiratory protection:** None should be needed in normal laboratory handling at room temperatures. If dusty conditions prevail, work in fume hood or wear a NIOSH/MSHA-approved respirator.

## Section 9 Physical and chemical properties

|  |  |  |
|--|--|--|
| <b>Appearance:</b> Solid. White lumps          | <b>Evaporation rate ( = 1):</b> Data not available         | <b>Partition coefficient:</b> Data not available               |
| <b>Odor:</b> No odor                           | <b>Flammability (solid/gas):</b> Data not available        | <b>Auto-ignition temperature:</b> Data not available           |
| <b>Odor threshold:</b> Data not available      | <b>Explosion limits: Lower / Upper:</b> Data not available | <b>Decomposition temperature:</b> Data not available           |
| <b>pH:</b> Data not available                  | <b>Vapor pressure (mm Hg):</b> Negligible                  | <b>Viscosity:</b> Data not available                           |
| <b>Melting / Freezing point:</b> 128°C (262°F) | <b>Vapor density (Air = 1):</b> Data not available         | <b>Molecular formula:</b> CaSO <sub>4</sub> ·2H <sub>2</sub> O |
| <b>Boiling point:</b> Data not available       | <b>Relative density (Specific gravity):</b> 2.32           | <b>Molecular weight:</b> 172.10                                |
| <b>Flash point:</b> Data not available         | <b>Solubility(ies):</b> 0.24 g/100 ml water @ 20°C         |  |

## Section 10 Stability and reactivity

**Chemical stability:** Stable      **Hazardous polymerization:** Will not occur.

**Conditions to avoid:** Protect from moisture. Material will harden on exposure to moisture.

**Incompatible materials:** Acids.

**Hazardous decomposition products:** Calcium oxides, sulfur oxides.

## Section 11 Toxicological information

**Acute toxicity:** Data not available

**Skin corrosion/irritation:** Data not available

**Serious eye damage/irritation:** Data not available

**Respiratory or skin sensitization:** Data not available

**Germ cell mutagenicity:** Data not available

**Carcinogenicity:** Data not available

**NTP:** No component of this product present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP.

**IARC:** No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.

**OSHA:** No component of this product present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA.

**Ca Prop 65:** This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity.

**Reproductive toxicity:** Data not available

**STOT-single exposure:** Data not available

**STOT-repeated exposure:** Data not available

**Aspiration hazard:** Data not available

**Potential health effects:**

**Inhalation:** May cause irritation of the throat and upper respiratory tract.

**Ingestion:** May be harmful if swallowed. Because material hardens quickly after absorbing moisture, ingestion may result in obstruction, particularly at the pylorus.

**Skin:** Contact with skin may cause irritation and/or defatting on prolonged contact.

**Eyes:** Contact with eyes may cause irritation.

**Signs and symptoms of exposure:** Exercise appropriate procedures to minimize potential hazards.

**Additional information:** RTECS #: WS6920000 [anhydrous]

## Section 12 Ecological information

**Toxicity to fish:** *Gasterosteus aculeatus* (fish, fresh water), LC100 = 10-15 g/L/1 day [anhydrous]

**Toxicity to daphnia and other aquatic invertebrates:** *Crangon crangon* (Crustacea), NOEC = <2.5 g/L/24 hours [anhydrous]

**Toxicity to algae:** *Chlorella vulgaris* (Algae), EC98 = 1.872 g/L/30 day [anhydrous]

**Persistence and degradability:** No data available      **Bioaccumulative potential:** No data available

**Mobility in soil:** No data available      **PBT and vPvB assessment:** No data available

**Other adverse effects:** An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

## Section 13 Disposal considerations

These disposal guidelines are intended for the disposal of catalog-size quantities only. Federal regulations may apply to empty container. State and/or local regulations may be different. Dispose of in accordance with all local, state and federal regulations or contract with a licensed chemical disposal agency.

## Section 14 Transport information

**UN/NA number:** Not applicable

**Shipping name:** Not Regulated

**Hazard class:** Not applicable

**Packing group:** Not applicable

**Reportable Quantity:** No

**Marine pollutant:** No

**Exceptions:** Not applicable

**2020 ERG Guide #:** Not applicable

## Section 15 Regulatory information

A chemical is considered to be listed if the CAS number for the anhydrous form is on the Inventory list.

| Component       | TSCA   | CERLCA (RQ) | RCRA code  | DSL    | NDSL       | CA Prop 65   |
|-----------------|--------|-------------|------------|--------|------------|--|
| Calcium sulfate | Listed | Not listed  | Not listed | Listed | Not listed | This product does not contain any chemicals known to the State of California to cause cancer or reproductive toxicity. |

## Section 16 Other information

The information contained herein is furnished without warranty of any kind. Employers should use this information only as a supplement to other information gathered by them and must make independent determinations of suitability and completeness of information from all sources to assure proper use of these materials and the safety and health of employees. NTP: National Toxicology Program, IARC: International Agency for Research on Cancer, OSHA: Occupational Safety and Health Administration, STOT: Specific Target Organ Toxicity, SE: Single Exposure, RE: Repeated Exposure, ERG: Emergency Response Guidebook.