

Section 1 Identification

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INNOVATING SCIENCE® by Aldon
 "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 | CALCIUM SULFATE, HEMIHYDRATE |
|----------------|------------------------------|

| | |
|-----------------|---------------------------------|
| Synonyms | Plaster of Paris / Dried Gypsum |
|-----------------|---------------------------------|

Section 2 Hazards identification

Signal word: WARNING

Pictograms: GHS08

Target organs: None known



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 crystalline silica 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 |
|------------------------------|------------|----------|-----------------------|
| Calcium sulfate, hemihydrate | 26499-65-0 | 60-100% | 231-900-3 (anhydrous) |
| Calcium carbonate | 1317-65-3 | 10-30% | 215-279-6 |
| Crystalline silica | 14808-60-7 | 0.5-1.5% | 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: 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: Limestone reacts with acids to release carbon dioxide.

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.

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) |
|------------------|-----------------|-----------------------------|--|--|
| | Calcium sulfate | TWA: 10 I mg/m ³ | TWA: 5 mg/m ³ Respirable fraction | TWA: 5 mg/m ³ Respirable fraction |

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

| | | |
|---|---|--|
| Appearance: Solid. White powder. | Evaporation rate (= 1): Not applicable | Partition coefficient: Not applicable |
| Odor: No odor. | Flammability (solid/gas): Data not available. | Auto-ignition temperature: Not applicable |
| Odor threshold: Data not available. | Explosion limits: Lower / Upper: Not flammable | Decomposition temperature: Data not available |
| pH: Data not available. | Vapor pressure (mm Hg): Data not available | Viscosity: Data not available. |
| Melting / Freezing point: Data not available | Vapor density (Air = 1): Data not available | Molecular formula: CaSO ₄ •1/2H ₂ O |
| Boiling point: Data not available | Relative density (Specific gravity): 2.8 | Molecular weight: 145.15 |
| Flash point: Not flammable | Solubility(ies): Data not available | |

Section 10 Stability and reactivity

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

Conditions to avoid: Avoid contact with acids.

Incompatible materials: Strong oxidizers, bases. Reacts with acids to liberate carbon dioxide.

Hazardous decomposition products: Carbon oxides, nitrogen 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: 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: May cause irritation to the respiratory tract (nose, mouth, mucous membranes).
 Ingestion: Harmful if swallowed. May cause irritation to mucous membranes. May result in obstruction when material hardens.
 Skin: May cause irritation and/or dry skin. May develop enough heat to cause burns if a large mass is kept in contact with skin while hardening (such as casts).
 Eyes: May cause irritation.
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 #: TP0700000
 * Respirable dust particles containing crystalline silica may be generated by crushing. There are no known hazards associated with this material when used as recommended.

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 |
|----------------------------|--------|-------------|------------|--------|------------|---|
| Calcium sulfate, anhydrous | Listed | Not listed | Not listed | Listed | Not listed | ⚠️ WARNING -Cancer - 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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| | |
|----------------|------------------|
| Product | ALGINATE PLASTER |
|----------------|------------------|

| | |
|-----------------|-----------------|
| Synonyms | Snap 3 Alginate |
|-----------------|-----------------|

Section 2 Hazards identification

Signal word: WARNING**Pictograms:** GHS08**Target organs:** Lungs, Eyes**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 |
|-----------------------------------|------------|---------------|-----------|
| Calcium sulfate | 7778-18-9 | Not available | 231-900-3 |
| Diatomaceous earth, flux calcined | 68855-54-9 | Not available | 272-489-0 |
| Cristobalite | 14464-46-1 | Not available | 238-455-4 |
| Quartz | 14808-60-7 | Not available | 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: 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: 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. Dust dispersed in air is capable of creating a dust explosion when exposed to an ignition source. Avoid dispersion of dust in air.

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: Minimize dust generation and accumulation. Use a dust suppressant such as water. Sweep or vacuum up and place in a suitable container for proper disposal. Wash spill area with soap and water.

