

Section 1 Identification

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

| | |
|----------------|---------------------------|
| Product | DIATOMACEOUS EARTH |
|----------------|---------------------------|

| | |
|-----------------|-----------|
| Synonyms | Diatomite |
|-----------------|-----------|

Section 2 Hazards identification

Signal word: WARNING

Pictograms: GHS07 / GHS08

Target organs: Lungs, Eyes.



GHS Classification:

STOT-SE (Category 3)

STOT-RE (Category 2)

GHS Label information: Hazard statement(s):

H335: May cause respiratory irritation.

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

Precautionary statement(s):

P260: Do not breathe dust.

P271: Use only outdoors or in a well-ventilated area.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P314: Get medical advice/attention if you feel unwell

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

P405: Store locked up

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 |
|--|------------|------|-----------|
| Diatomaceous earth, flux calcined | 68855-54-9 | 100% | 272-489-0 |
| This product may contain up to 54% crystalline silica: | | | |
| Cristobalite | 14464-46-1 | <50% | 238-455-4 |
| Quartz | 14808-60-7 | <4% | 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: MAY CAUSE IRRITATION AND SORENESS IN THROAT AND NOSE. IN EXTREME EXPOSURES SOME CONGESTION MAY OCCUR. Remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention.

EYE CONTACT: TEMPORARY IRRITATION OR INFLAMMATION. 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.

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.

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. Minimize dust generation.

Section 8 Exposure controls / personal protection

| Exposure Limits: | Chemical Name | ACGIH (TLV) | OSHA (PEL) | NIOSH (REL) |
|------------------|--|--|------------|--|
| | Silica, crystalline, cristobalite & α -quartz | TWA: 0.025 mg/m ³ (A2) respirable | Not listed | TWA: 0.05 mg/m ³ respirable |

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. Fine, white to pale pink powder | Evaporation rate (= 1): Data not available | Partition coefficient: Data not available |
| Odor: No odor. | Flammability (solid/gas): Data not available. | Auto-ignition temperature: Data not available |
| Odor threshold: Data not available | Explosion limits: Lower / Upper: Data not available | 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: SiO ₂ |
| Boiling point: Data not available | Relative density (Specific gravity): 2.3 | Molecular weight: 60.09 |
| Flash point: Data not available | Solubility(ies): Negligible in water | |

Section 10 Stability and reactivity

Chemical stability: Stable
Conditions to avoid: None in designed use.
Incompatible materials: Hydrofluoric acid.
Hazardous decomposition products: None known.
Hazardous polymerization: Will not occur.

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.
 IARC classified: Group 1: Carcinogenic to humans.
 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: The substance or mixture is classified as specific target organ toxicant, single exposure, category 3 with respiratory effects
STOT-repeated exposure: The substance or mixture is classified as specific target organ toxicant, repeated exposure, category 2 with respiratory effects
Aspiration hazard: Data not available
Potential health effects:
 Inhalation: May be harmful if inhaled.
 Ingestion: No hazard expected.
 Skin: No hazard expected.
 Eyes: Transient irritation.
Signs and symptoms of exposure: This product contains crystalline silica, which is considered to be a hazard by inhalation. Crystalline silica is also a known cause of silicosis, a non-cancerous lung disease.
Additional information: RTECS #: VV7325000 [Cristobalite]

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
Exceptions: 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 |
|--------------------|--------|-------------|------------|--------|------------|--|
| Diatomaceous earth | 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.