



WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: **CLEARTREAT® 2100**
Chemical Family: Mineral
Application: Water Treatment
Manufacturer/Supplier: Wyo-Ben, Inc.
1345 Discovery Drive
Billings, MT 59102 USA
Telephone: 800.548.7055
Facsimile: 406.656.0748
Emergency Phone Number: CHEMTREC® 1.800.424.9300

SECTION 2 — HAZARD IDENTIFICATION

Hazard Classification: Carcinogenicity (Category 1A)
Specific Target Organ Toxicity (Repeated Exposure) (Category 1)
Eye Irritation (Category 2)
Signal Word: Danger
Hazard Statements: May cause cancer.
Causes damage to organs through prolonged or repeated exposure.
Causes serious eye irritation.

Hazard Symbol: Health Hazard; Exclamation Mark

Precautionary Statements

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Do not breath dust. Wash face, hands and any exposed skin thoroughly after handling. Do not eat, drink or smoke when using this product. Wear eye protection/face protection.

Response: If exposed or concerned: Get medical advice/attention. Seek medical advice/attention if you feel unwell.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical attention.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Seek medical advice/attention if you feel unwell.

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

Disposal: Dispose of contents/container in accordance with local/regional/national regulations.

Hazards Not Otherwise Classified:

None known.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

| Substances | CAS Number | Percent |
|----------------------------|--------------|---------|
| Crystalline Silica, quartz | 14808-60-7 | ≤6% |
| Trade Secret* | Proprietary* | ≤1% |
| Trade Secret* | Proprietary* | ≤2% |

* The specific identity and/or percentage of composition has been withheld as a trade secret.

SECTION 4 — FIRST AID MEASURES

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| Inhalation: | Remove person to a dust free area. Get medical attention if respiratory irritation develops or if breathing becomes difficult. Inhalation may aggravate existing respiratory illness. |
| Eyes: | Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing for 15 minutes. If eye irritation persists: Seek medical attention.. |
| Skin: | Wash with soap and large amounts of water until clear. Seek medical attention if irritation develops and persists. |
| Ingestion: | Do not induce vomiting. First aid measures not normally required. |
| Notes to Physician: | Provide general supportive measures and treat symptomatically |

SECTION 5 — FIRE FIGHTING MEASURES

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| Suitable Extinguishing Media: | Does not burn. All standard firefighting media may be used for packaging fires. |
| Unsuitable Extinguishing Media: | None |
| Special Exposure Hazards: | None known. Product is not combustible. |
| Special Protective Equipment and | None for product. Wear full fire-fighting turn-out gear (full Bunker gear), and respiratory protection (SCBA) appropriate for packaging fire. |
| Precautions for Firefighters: | Caution, slippery when wet. |
| NFPA Ratings: | Health 2, Flammability 0, Reactivity 0 |

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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| Personal Precautionary Measures: | Use appropriate protective equipment. Avoid creating and breathing dust. |
| Environmental Precautionary Measures: | Keep from entering sewers or water ways. |
| Procedure for Cleaning/Absorption: | Avoid generating dust. Collect using appropriate dustless method. Store collected materials in dry, sealed container. Dispose in licensed landfill according to local, state and federal regulations. |

SECTION 7 — HANDLING AND STORAGE

Handling Precautions: This product contains quartz which may become airborne. Avoid breathing dust. Avoid creating dusty conditions. Use only with adequate ventilation to keep exposure below recommended exposure limits. Wear a NIOSH/MSHA European Standard En 149, or equivalent certified for silica bearing dust, respirator when using this product. Promptly clean up spills to avoid breathing airborne dust. Avoid direct eye or skin contact with product. Product is slippery when wet.

Storage Information: Use good housekeeping in storage and work areas to prevent accumulation of dust. Store in cool, dry place. Close container when not in use. Do not reuse empty container.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

| Substances | CAS Number | ACGIH TLV-TWA* | OSHA PEL-TWA* |
|----------------------------|----------------|-------------------------|---|
| Crystalline Silica, quartz | 14808-60-7 | 0.025 mg/m ³ | $\frac{10 \text{ mg/m}^3}{\% \text{SiO}_2 + 2}$ |
| Trade Secret ** | Proprietary ** | Not established | 15 mg/m ³ *** |
| Trade Secret ** | Proprietary ** | 5 mg/m ³ | 15 mg/m ³ *** |

* More restrictive exposure limits may be enforced by some states, agencies, or other authorities.

** The specific identity and/or percentage of composition has been withheld as a trade secret.

*** For particles not otherwise regulated

Engineering Controls: Use approved industrial ventilation and local exhaust as required to maintain exposures below applicable exposure limits.

Personal Protective Equipment: If engineering controls and work practices cannot prevent excessive exposures, the selection and proper use of personal protective equipment should be determined by an industrial hygienist or other qualified professional based on the specific application of this product.

Respiratory Protection: If significant exposures exceeding occupational exposure limit are possible use NIOSH/MSHA respirator approved for silica bearing dust.

Hand Protection: Standard work gloves.

Skin Protection: Use appropriate gloves to prevent skin contact. Wear clothing appropriate to prevent skin contact. Dusty clothing should be laundered before reuse. Use precautionary measures to avoid creating dust when removing or laundering clothing.

Eye Protection: Wear safety glasses with side shields, safety goggles or full face shield to protect against exposure. Do not wear contact lenses when working with this product.

Other Precautions: Eye wash fountain and emergency showers are recommended.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powdered Solid

Color: Light tan to gray as dry powder

Odor: Odorless

pH: 4.8 (5% aqueous suspension)

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|---|---------------------------------------|
| Specific Gravity @ 20 C (Water=1): | 2.45 – 2.55 |
| Density @ 20 C (lbs/gallon): | Not determined |
| Bulk Density @ 20 C (lbs/ft ³): | 49 - 55 |
| Boiling Point/Range (F/C): | Not applicable |
| Freezing Point/Range (F/C): | Not applicable |
| Vapor Pressure @ 20 C (mmHg): | Not applicable |
| Vapor Density (Air=1): | Not applicable |
| Percent Volatiles: | Not applicable |
| Evaporation Rate (Butyl Acetate=1): | Not applicable |
| Solubility in Water (g/100ml): | Insoluble, forms colloidal suspension |
| Solubility in Solvents (g/100ml): | Not applicable |
| VOCs (lbs/gallon): | Not applicable |
| Viscosity, Dynamic @ 20 C (centipoise): | Not applicable |
| Viscosity, Kinematic @ 20 C (centistrokes): | Not determined |
| Partition Coefficient/n-Octanol/Water: | Not applicable |
| Molecular Weight (g/mole): | Not applicable |
| Flash Point/Range (F/C): | Not applicable |
| Flash Point Method: | Not applicable |
| Autoignition Temperature (F/C): | Not applicable |
| Flammability Limits in Air – Lower (%): | Not applicable |
| Flammability Limits in Air – Upper (%): | Not applicable |

SECTION 10 — STABILITY AND REACTIVITY

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|---|-----------------|
| Reactivity: | Nonreactive |
| Chemical Stability: | Stable |
| Possibility of Hazardous Reactions: | Will not occur. |
| Conditions to Avoid: | None |
| Anticipated Incompatibility (Materials to Avoid): | None known |
| Hazardous Decomposition Products: | None |
| Additional Guidelines: | Not applicable |

SECTION 11 — TOXICOLOGICAL INFORMATION

Principle Route of Exposure: Eye or skin contact, inhalation.

Symptoms Related to the Physical, Chemical and Toxicological Characteristics

Inhalation: Product can cause irritation of the respiratory system. Inhaled crystalline silica in the form of quartz from occupational sources is carcinogenic to humans (IARC, Group 1). Inhalation may aggravate existing respiratory illness.

Skin Contact: May cause irritation of the skin, especially in the presence of moisture.

| | |
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| Eye Contact: | Contact can cause serious irritation. |
| Ingestion: | None known. |
| Aggravated Medical Conditions: | Individuals with respiratory disease, including but not limited to asthma and bronchitis, or those subject to eye irritation, should not be exposed to this product or to respirable quartz-bearing dust. |
| Chronic Effects/Carcinogenicity: | <p>Silicosis: Excessive inhalation of respirable crystalline silica dust may cause a progressive, disabling, and sometimes-fatal lung disease called silicosis. Symptoms include cough, shortness of breath, wheezing, non-specific chest illness, and reduced pulmonary function. This disease is exacerbated by smoking. Individuals with silicosis are predisposed to develop tuberculosis.</p> <p>Cancer Status: The International Agency for Research on Cancer (IARC, 1997) concludes that there is sufficient evidence in humans for carcinogenicity of inhaled crystalline silica from occupational sources (IARC Group 1), that carcinogenicity was not detected in all industrial circumstances studied and that carcinogenicity may depend on characteristics of the crystalline silica or on external factors affecting its biological activity. See IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997). The National Toxicology Program (NTP) classifies respirable crystalline silica as “Known to be a human carcinogen” (NTP 9th Report on Carcinogens, 2000). The American Conference of Governmental Industrial Hygienists (ACGIH) classifies crystalline silica, quartz, as a suspected human carcinogen (A2).</p> |
| Other Information: | See “Adverse Effects of Crystalline Silica Exposure” published by the American Thoracic Society Medical Section of the American Lung Association, American Journal of Respiratory and Critical Care Medicine, Volume 155, pages 761-768 (1997). |

Toxicity Tests

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|--------------------------------------|--|
| Oral Toxicity: | Not classified |
| Dermal Toxicity: | Not classified |
| Inhalation Toxicity: | Not classified |
| Primary Irritation Effect: | Not classified |
| Carcinogenicity: | Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres (June 1997). |
| Genotoxicity: | Not classified |
| Reproductive/Developmental Toxicity: | Not classified |

SECTION 12 — ECOLOGICAL INFORMATION

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| Mobility (Water/Soil/Air): | Not determined. Based upon ingredients mobility in water and soil should be minimal. |
| Persistence/Degradability: | Not determined |
| Bio-accumulation: | Not determined |

Ecotoxicological Information

Because of the high pH of this product, it would be expected to produce significant ecotoxicity upon exposure to aquatic organisms and aquatic systems in high concentrations.

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|----------------------|----------------|
| Acute Fish Toxicity: | Not determined |
|----------------------|----------------|

Acute Crustaceans Toxicity: Not determined

Acute Algae Toxicity: Not determined

Chemical Fate Information: Not determined

Other Information: None known

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Method: If product should become a waste dispose in a licensed landfill according to federal, state and local regulations.

Contaminated Packaging: Do not reuse. Follow all applicable national or local regulations.

SECTION 14 — TRANSPORT INFORMATION

Land Transportation

DOT – Not regulated as dangerous goods

Canadian TDG – Not regulated as dangerous goods

ADR – Not regulated as dangerous goods

Air Transportation

ICAO/IATA – Hazardous Class 8-Corrosive, UN1910, Packing Group III

Sea Transportation

IMDG – Not regulated as dangerous goods

Other Transportation Information

Labels: None

SECTION 15 — REGULATORY INFORMATION

US Regulations

US TSCA Inventory All components listed on inventory or are exempt.

EPA SARA Title III Extremely Hazardous Substances Not applicable

EPA SARA (311, 312) Hazard Class Chronic Health Hazard

EPA SARA (313) Chemicals This product does not contain a toxic chemical for routine annual "Toxic Chemical Release Reporting" under Section 313 (40 CFR 372).

EPA CERCLA/Superfund Reportable Spill Quantity Not applicable

EPA RCRA Hazardous Waste Classification If product becomes a waste, it does NOT meet the criteria of a hazardous waste as defined by the US EPA.

California Proposition 65 This product contains crystalline silica (respirable) which is a substance known to the State of California to cause cancer.

Canadian Regulations

Canadian DSL Inventory

All components listed on inventory or are exempt.

WHMIS Hazard Class

Class D, Division 2, Subdivision A for crystalline silica (respirable).
Class E for calcium hydroxide.

SECTION 16 — OTHER INFORMATION

Prepared 03/18/2015

Last Revision 01/08/2016

DISCLAIMER

All information presented herein is believed to be accurate; however, it is the user's responsibility to determine in advance of need that the information is current and suitable for their circumstances. No warranty or guarantee, expressed or implied is made by WYO-BEN, INC. as to this information, or as to the safety, toxicity or effect of the use of this product.