

WYO-BEN, INC.

SAFFTY DATA SHFFT

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: TD-16®
Chemical Family: Mineral

Application: Borehole Sealing

Manufacturer/Supplier: Wyo-Ben, Inc.

1345 Discovery Drive Billings, MT 59102 USA

Telephone: 800.548.7055 Facsimile: 406.656.0748

Emergency Phone Number CHEMTREC® 800.424.9300

SECTION 2 — HAZARD IDENTIFICATION

Hazard Symbol: Health Hazard

Signal Word: Warning

Hazard Overview: ACUTE HEALTH HAZARD

May cause eye and respiratory irritation.

CHRONIC HEALTH HAZARD

Breathing crystalline silica can cause lung disease, including silicosis and lung cancer.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	Percent	ACGIH TLV-TWA	OSHA PEL-TWA*
Crystalline Silica, quartz	14808-60-7	1-6%	0.025 mg/m ³	10 mg/m ³ %SiO2 + 2

^{*}More restrictive exposure limits may be enforced by some states, agencies, or other authorities. Non-hazardous components > 94%

SECTION 4 — FIRST AID MEASURES

Inhalation: If inhaled, remove to a dust free area. Get medical attention if respiratory irritation develops

or if breathing becomes difficult. Inhalation may aggravate existing respiratory illness.

Skin: Wash with soap and water until clear. Seek medical attention if irritation persists.

Eyes: In case of contact, immediately flush eyes with plenty of water for at least 15 minutes and get

medical attention if irritation persists.

Ingestion: No adverse effects.

Notes to Physician: Treat Symptomatically.

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SECTION 5 — FIRE FIGHTING MEASURES

Flash Point/Range (F):

Flash Point/Range (C):

Flash Point Method:

Autoignition Temperature (F):

Autoignition Temperature (C):

Flammability Limits in Air – Lower (%):

Flammability Limits in Air – Upper (%):

Not applicable

Not applicable

Fire Extinguishing Media: All standard firefighting media. (Caution slippery when wet.)

Special Exposure Hazards: Not applicable
Special Protective Equipment for Firefighters: Not applicable

NFPA Ratings: Health 0, Flammability 0, Reactivity 0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Use appropriate protective equipment. Avoid creating and breathing dust.

Environmental Precautionary Measures: None known.

Procedure for Cleaning/Absorption: Collect using appropriate dustless method and hold for appropriate disposal.

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. Material is slippery when

wet. Promptly clean up spills to avoid breathing airborne dust.

Storage Information: Use good housekeeping in storage and work areas to prevent accumulation of dust. Close

container when not in use. Do not reuse empty container.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

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: Not normally needed. If significant exposures are possible use NIOSH/MSH respirator

approved for silica bearing dust.

Hand Protection: Normal work gloves.

Skin Protection: Wear clothing appropriate for the work environment. Dusty clothing should be laundered

before reuse. Use precautionary measures to avoid creating dust when removing or

laundering clothing.

Eye Protection: Wear safety glasses or goggles to protect against exposure.

Other Precautions: None known.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Color: Light tan to gray as dry powder

Odor: Odorless

pH: 8 – 10 (5% aqueous solution)

Specific Gravity @ 20 C (Water=1): 2.45 – 2.55

Density @ 20 C (lbs/gallon): Not determined

Bulk Density @ 20 C (lbs/ft 3): 60 – 66

Boiling Point/Range (F):

Boiling Point/Range (C):

Freezing Point/Range (F):

Freezing Point/Range (C):

Vapor Pressure @ 20 C (mmHg):

Vapor Density (Air=1):

Percent Volatiles:

Not applicable

Not applicable

Solubility in Water (g/100ml): Insoluble, forms colloidal suspension

Not applicable

Solubility in Solvents (g/100ml): Not applicable VOCs (lbs/gallon): Not applicable

Viscosity, Dynamic @ 20 C (centipoise): 240

Evaporation Rate (Butyl Acetate=1):

Viscosity, Kinematic @ 20 C (centistrokes): Not applicable
Partition Coefficient/n-Octanol/Water: Not applicable
Molecular Weight (g/mole): Not applicable

SECTION 10 — STABILITY AND REACTIVITY

Stability Data: Stable

Hazardous Polymerization: Will Not Occur

Conditions to Avoid: None anticipated
Incompatibility (Materials to Avoid): Hydrofluoric Acid

Hazardous Decomposition Products: None

Additional Guidelines: Not applicable

SECTION 11 — TOXICOLOGICAL INFORMATION

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

Inhalation: Inhaled crystalline silica in the form or quartz from occupational sources is

carcinogenic to humans (IARC, Group 1).

Skin Contact: May cause mechanical skin irritation.

Eye Contact: May cause eye irritation.

Ingestion: None known

Aggravated Medical Conditions: Individuals with respiratory disease, including but not limited to asthma and

bronchitis, or subject to eye irritation, should not be exposed to respirable

quartz-bearing dust.

Chronic Effects/Carcinogenicity: 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.

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).

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

Oral Toxicity: Not determined (on FDA GRAS list; used as a food additive)

Dermal Toxicity: Not determined (on FDA GRAS list; used in cosmetic preparations)

Inhalation Toxicity: Not determined

Primary Irritation Effect: Not determined

Carcinogenicity: Refer to IARC Monograph 68, Silica, Some Silicates and Organic Fibres

(June 1997).

Genotoxicity: Not determined

Reproductive/Developmental Toxicity: Not determined

SECTION 12 — ECOLOGICAL INFORMATION

Not determined Mobility (Water/Soil/Air): Persistence/Degradability: Not determined Bio-accumulation: Not determined

Ecotoxicological Information

Acute Fish Toxicity: Not determined Acute Crustaceans Toxicity: Not determined Acute Algae Toxicity: Not determined

Chemical Fate Information: Not determined Other Information: Not applicable

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Method: Bury in a licensed landfill according to federal, state and local regulations.

Contaminated Packaging: Follow all applicable national or local regulations.

SECTION 14 — TRANSPORT INFORMATION

Land Transportation

DOT - Not Restricted

Canadian TDG - Not Restricted

ADR - Not Restricted

Air Transportation

ICAO/IATA - Not Restricted

Sea Transportation

IMDG - Not Restricted

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

Acute Health Hazard 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 are exempt.

WHMIS Hazard Class This product contains crystalline silica (respirable) and is classified as a Class D,

Division 2, Subdivision A substance.

SECTION 16 — OTHER INFORMATION

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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.