



WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: **BENFLOC 230G**
Chemical Family: Mineral
Application: Water Treatment

Manufacturer/Supplier: Wyo-Ben, Inc.
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SECTION 2 — HAZARD IDENTIFICATION

Hazard Classification: Carcinogenicity
Eye Damage

Signal Word: Danger

Hazard Statements:: Breathing respirable crystalline silica can cause lung disease, including silicosis and lung cancer.
Causes serious eye damage
Causes skin irritation
May cause respiratory irritation

Hazard Symbol: Health Hazard; Corrosion

Precautionary Statements: Promptly clean up spills to avoid creating airborne dust. Avoid breathing airborne dust. Use only outdoors or in a well-ventilated area. Wear a NIOSH/MSHA European Standard En149 respirator, or equivalent certified for silica bearing dust, when using this product. Wash thoroughly after handling. Do not eat, drink or smoke when using this product. Product is slippery when wet.
If skin irritation occurs seek medical advice/attention. Remove contaminated clothing and wash before reuse.
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical attention immediately.
If inhaled: Remove person to fresh air and keep comfortable for breathing. Seek medical advice/attention if you feel unwell.

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*	≤5%
Trade Secret*	Proprietary*	≤5%
Trade Secret*	Proprietary*	≤10%

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

SECTION 4 — FIRST AID MEASURES

Inhalation:	Product can cause severe irritation of the respiratory system. 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:	Contact can cause severe irritation or burning, including permanent damage. Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Seek medical attention immediately.
Skin:	Can cause irritation or burning of the skin, especially in the presence of moisture. Wash with soap and large amounts of water until clear. Seek medical attention if irritation or burning develops.
Ingestion:	This product can cause severe irritation or burning of gastrointestinal tract if swallowed. Do not induce vomiting. Seek medical attention immediately. Never give anything by mouth unless instructed to do so by medical personnel.
Notes to Physician:	Provide general supportive measures and treat symptomatically

SECTION 5 — FIRE FIGHTING MEASURES

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 1, Flammability 0, Reactivity 0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

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 **	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: Granular Solid

Color: Light tan to gray as dry powder

Odor: Odorless

pH: 11.2 (5% aqueous suspension)

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/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

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 severe 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:	Can cause irritation or burning of the skin, especially in the presence of moisture.
Eye Contact:	Contact can cause severe irritation or burning, including permanent damage.
Ingestion:	Product can cause severe irritation or burning of gastrointestinal tract if swallowed.
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:	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).
<u>Toxicity Tests</u>	
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

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.

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

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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.