



WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: **BORZAN®**
Chemical Family: Biopolymer
Application: Drilling Fluid Additive

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 Classification: None. This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Hazard Symbol: None

Signal Word: None

Hazard Statements: None

Hazards Not Otherwise Classified: Extremely slippery when wetted..

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Contains no hazardous ingredients according to GHS.

Substances	CAS Number	Percent	ACGIH TLV-TWA	OSHA PEL-TWA	Notes
Saturated monocarboxylic acid, calcium salt*	Proprietary	1-5	10 mg/m ³	Not Established	See ^a below

^a Does not include stearates of toxic metals

SECTION 4 — FIRST AID MEASURES

General advice:	Do not leave the victim unattended.
Inhalation:	If unconscious place in recovery position and seek medical advice. Keep respiratory tract clear. If symptoms persist, call a physician.
Skin:	Wash off with soap and water.
Eyes:	Remove contact lenses. Flush eyes with plenty of water, including under eye lids. Seek medical attention if irritation persists.
Ingestion:	Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician.

SECTION 5 — FIRE FIGHTING MEASURES

Fire Extinguishing Media:	Carbon dioxide (CO ₂) or dry chemical. Avoid water spray. Wet product can be extremely slippery.
Special Exposure Hazards:	Caution, extremely slippery if wetted.
Special Protective Equipment for Firefighters:	Wear self-contained breathing apparatus for firefighting if necessary.
Additional Information:	Standard procedure for chemical fires. Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Fire and explosion protection:	Provide appropriate exhaust ventilation at places where dust is formed.
Thermal decomposition:	May produce oxides of carbon (CO _x) and nitrogen (NO _x).
NFPA Ratings:	Health 0, Flammability 1, Reactivity 0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures:	Avoid dust formation
Environmental Precautionary Measures:	Do not allow product to contaminate water systems. Notify authorities if water system contamination occurs.
Procedure for Cleaning/Absorption:	Do not flush with water. Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

SECTION 7 — HANDLING AND STORAGE

Handling Precautions:	Avoid formation of dust. For personal protection see section 8. Smoking, eating and drinking should be prohibited in the application area. Provide appropriate exhaust ventilation at places where dust is formed to avoid protect against fire and explosion.
Storage Information:	Electrical installations / working materials must comply with the technological safety standards.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use adequate ventilation to control airborne concentrations below the exposure
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guidelines/limits. Consider the potential hazards of this material (see Section 3), applicable exposure limits, job activities, and other substances in the work place when designing engineering controls and selecting personal protective equipment. If engineering controls or work practices are not adequate to prevent exposure to harmful levels of this material, the personal protective equipment listed below is recommended. The user should read and understand all instructions and limitations supplied with the equipment since protection is usually provided for a limited time or under certain circumstances.

Personal Protective Equipment

- Respiratory Protection:** Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure.
- Hand Protection:** The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.
- Skin Protection:** Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Lightweight protective clothing. Safety shoes.
- Eye Protection:** Safety glasses. Eye wash bottle with pure water.
- Other Precautions:** Wash hands and face before breaks and immediately after handling the product. Handle in accordance with good industrial hygiene and safety practice

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Solid powder
Color:	Cream to light yellow
Odor:	Slight
pH:	5.5 – 8.5
Specific Gravity @ 20 C (Water=1):	Approximately 1.4 – 1.6
Boiling Point/Range (F):	Not applicable
Boiling Point/Range (C):	Not applicable
Freezing Point/Range (F):	Not determined
Freezing Point/Range (C):	Not determined
Vapor Pressure @ 20 C (mmHg):	Not applicable
Vapor Density (Air=1):	Not applicable
Percent Volatiles:	Not determined
Evaporation Rate (Butyl Acetate=1):	Not determined
Solubility in Water (g/100ml):	Completely soluble
Solubility in Solvents (g/100ml):	Not determined
VOCs (lbs/gallon):	Not determined
Viscosity, Dynamic @ 20 C (centipoise):	Not determined
Viscosity, Kinematic @ 20 C (centistrokes):	Not determined

Partition Coefficient/n-Octanol/Water:	Not determined
Molecular Weight (g/mole):	Not determined
Flash Point/Range (F):	Not applicable
Flash Point/Range (C):	Not applicable
Flash Point Method:	Not applicable
Autoignition Temperature (F):	No data available
Autoignition Temperature (C):	No data available
Upper Explosion Limit:	No data available
Lower Explosion Limit:	No data available

SECTION 10 — STABILITY AND REACTIVITY

Stability Data:	This material is considered stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.
Conditions to Avoid:	High heat, flames and sparks.
Hazardous Decomposition Products:	No decomposition if stored and applied as directed.

SECTION 11 — TOXICOLOGICAL INFORMATION

Principle Route of Exposure

Inhalation:	No affects known.
Skin Contact:	No skin irritation.
Eye Contact:	No eye irritation.
Ingestion:	No affects known.
Aggravated Medical Conditions:	No affects known.

Toxicity

Acute Oral Toxicity:	LC50 not known
Acute Dermal Toxicity:	LD50 not known
Inhalation Toxicity:	LC50 not known
Aspiration Toxicity:	No aspiration toxicity classification
Carcinogenicity:	Not identified as probable, possible, confirmed, anticipated or potential human carcinogen by IARC, NTP or ACGIH.
Genotoxicity:	Not determined
Reproductive/Developmental Toxicity:	Not determined

SECTION 12 — ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air):	Keep from entering natural water systems.
Persistence/Degradability:	No data available but expected to be biodegradable.
Bio-accumulation:	Not expected to bio-accumulate
Other Information:	No data available

SECTION 13 — DISPOSAL CONSIDERATIONS

The information in this MSDS pertains only to the product as shipped.

Use material for its intended purpose or recycle if possible. If it must be discarded this material may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Disposal Method:	Landfill in accordance with federal, state and local regulations.
Contaminated Packaging:	Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14 — TRANSPORT INFORMATION

The shipping descriptions shown here are for bulk shipments only, and may not apply to shipments in non-bulk packages (see regulatory definition).

Consult the appropriate domestic or international mode-specific and quantity-specific Dangerous Goods Regulations for additional shipping description requirements (e.g., technical name or names, etc.) Therefore, the information shown here, may not always agree with the bill of lading shipping description for the material. Flashpoints for the material may vary slightly between the MSDS and the bill of lading.

Land Transportation

US DOT – Not regulated as hazardous material or dangerous goods for transportation by this agency.

ADR/RID – Not regulated as hazardous material or dangerous goods for transportation by this agency.

Air Transportation

IATA – Not regulated as hazardous material or dangerous good for transportation by this agency s.

Sea Transportation

IMDG/IMO – Not regulated as hazardous material or dangerous goods for transportation by this agency.

Inland Waterways

AND - Not regulated as hazardous material or dangerous goods for transportation by this agency.

Other Transportation Information

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

SECTION 15 — REGULATORY INFORMATION

US Regulations

US TSCA Inventory	All components are listed on the inventory.
EPA SARA (302) Extremely Hazardous Substances	This material does not contain any components that are subject to 40CFR Section 302.
EPA SARA (304)	This material does not contain any components that are subject 40CFR Section 304.
EPA SARA (311, 312)	This material does not contain any components that are subject 40CFR Sections 311 and 312 .
EPA SARA (313) Chemicals	This product does not contain any chemical components with known CAS numbers that exceed the threshold reporting levels under 40CFR Section 313.
EPA CERCLA/Superfund	This material does not contain any components that are subject to CERCLA reporting requirements .
EPA RCRA Hazardous Waste Classification	This material, if discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40CFR261).
California Prop 65:	This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

Canadian Regulations

Canadian DSL Inventory	All components are listed on the inventory.
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Australian Regulations

Australian AICS	All components are listed on the inventory.
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European Regulations

REACH	All components are listed on the inventory or in compliance with the inventory.
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SECTION 16 — OTHER INFORMATION

Prepared: 01/10/2013

Last Revision: 09/02/2015

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.