



WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: **G-150**
Chemical Family: Guar Gum
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: Respiratory Sensitizer (Category 1)
Combustible Dust

Signal Word: Danger

Hazard Statements: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
May form combustible dust concentrations in air.

Hazard Symbol: Health Hazard

Precautionary Statements: Avoid breathing dust or fume. In case of inadequate ventilation, wear respiratory protection.
Avoid creating airborne dust. High concentrations of airborne dust present a potential explosion hazard.
IF INHALED: If breathing is difficult, remove victim to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor.

Disposal: Dispose of contents in accordance with local, regional and national regulations.

Hazards Not Otherwise Classified: Slip hazard: Product becomes very slippery when wet

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Substance	CAS Number	Percent
Guar Gum (as PNOR)	9000-30-0	100

SECTION 4 — FIRST AID MEASURES

Inhalation:	If breathing is difficult, remove victim to fresh air and keep comfortable for breathing. If experiencing respiratory symptoms: Call a doctor. If symptoms of irritation or allergy develop, remove person from source of exposure to fresh air. Get immediate medical attention if asthmatic symptoms develop.
Skin:	No first aid should normally be needed. Wash exposed skin with soap and water after use. If irritation or rash develops, get medical attention. Use skin lotion if dryness occurs.
Eyes:	Flush thoroughly with water. If irritation persists get medical attention.
Ingestion:	DO NOT INGEST. While this product is not toxic by ingestion, swallowing small amounts could cause complete blockage of the mouth, pharynx, trachea, esophagus and/or gastrointestinal system which may cause choking, suffocation and/or other life threatening medical conditions. Get medical attention immediately.

Most Important symptoms and effects, both acute and delayed:

Inhalation of dust may cause sensitization and difficulty breathing. Inhalation of dust may cause nose and throat irritation, coughing and sneezing. Ingestion may cause gastric upset and nausea. Product may cause mechanical eye and skin irritation.

Indication of any immediate medical attention and special treatment needed:

If inhaled and causes allergic reaction, seek immediate medical attention. Seek immediate medical attention if any amount is ingested.

SECTION 5 — FIRE FIGHTING MEASURES

Fire Extinguishing Media:	Water fog, foam, carbon dioxide (CO ₂) or dry chemical. Do not use solid water jet as that may create a dust cloud that can present an explosion hazard. CAUTION: Wet product can be extremely slippery.
Special Exposure Hazards:	High concentrations of dust suspended in air may present a potential explosion hazard. Settled dust presents a fire hazard. Re-suspension of the dust into the air by vibration, traffic, material handling, etc. in high concentrations in the presence of an ignition source could result in a dust explosion. Minimize the generation and accumulation of dust. Slip hazard: CAUTION, extremely slippery if wetted.
Special Protective Equipment for Firefighters:	Firefighters should wear positive pressure self-contained breathing apparatus and full protective clothing.
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).
Additional Information:	Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
NFPA Ratings:	Health 1, Flammability 2, Reactivity 0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures:	Avoid breathing dust/fume. In case of inadequate ventilation wear respiratory protection. Wear appropriate protective equipment. Avoid creating dust. Eliminate ignition sources. See: Combustible Dust in Industry: Preventing and Mitigating the Effects of Fire and Explosions. Safety and Health Information Bulletin. SHIB 07-31-2005; updated 11-12-2014. https://www.osha.gov/dts/shib/shib073105.html
Environmental Precautionary Measures:	Avoid unintentional release to the environment.
Procedures for Clean Up:	Do not use water or water based solvents. Collect dry and in a manner to minimize the generation of airborne dust or vacuum with a high vacuum cleaner. If a vacuum is used, explosion proof equipment is required. Non-sparking tools should be used. Dust deposits should not be allowed to accumulate on surfaces, as these may form an explosive mixture if they are released into the atmosphere in sufficient concentrations. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air.)

SECTION 7 — HANDLING AND STORAGE

Handling Precautions:	Avoid breathing dust/fume. In case of inadequate ventilation wear respiratory protection. Avoid contact with eyes and clothing. Avoid creating dust. Wear protective clothing and equipment as described in Section 8. Use only with adequate ventilation. Wash thoroughly with soap and water after handling. Minimize the generation and accumulation of dust. Keep dust away from open flames, hot surfaces and sources of ignition. Follow good housekeeping practices to keep surfaces, including areas overhead such as piping, drop ceilings, ductwork, etc. free from settled dust. Dry powders can build static electricity charges when subjected to friction of transfer and in mixing operations. Provide adequate precautions, such as electrical grounding and bonding, or inert atmospheres. Empty containers retain product residues. Follow all SDS precautions in handling empty containers.
Storage Information:	Keep container tightly closed when not in use.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Limits

Substance	CAS Number	OSHA PEL-TWA
Guar Gum (as PNOR)	9000-30-0	5 mg/m ³ (respirable); 15 mg/m ³ (total dust)

Note: The OSHA limits may not adequately protect workers from respiratory sensitization. Exposure levels should be maintained as low as possible for the workers' protection. Refer to local regulations for specific requirements.

Engineering Controls: Use explosion proof local exhaust ventilation, as needed, to maintain exposure concentrations below the recommended limits.

Personal Protective Equipment

Respiratory Protection: If concentrations exceed the Threshold Limit Value (TLV) a NIOSH approved dust respirator, supplied air respirator or self-contained breathing apparatus (SCBA) is recommended. Select appropriate respiratory protection for respirable particulates based on consideration of the airborne workplace concentrations and duration of exposure. Select and use respirators in accordance with 29 CFR 1910.134, ANSI Z88.2, the NIOSH Respirator Decision Logic and good industrial hygiene practice.

Skin/Body Protection: None required. Work gloves may be used to protect against mechanical irritation.
Eye Protection: Follow facility requirements. Dust goggles recommended for dusty conditions.
Protective Clothing: Wear appropriate protective clothing, as needed, to minimize skin contact.
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 white
Odor:	Bean-like
pH:	Not applicable
Specific Gravity @ 20 C (Water=1):	Not determined
Melting Point (F/C):	Not applicable. Decomposes
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):	Completely soluble
Solubility in Solvents (g/100ml):	Not determined
VOCs (lbs/gallon):	Not applicable
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/C):	None
Lower Explosion Limit:	40 g/m ³
Upper Explosion Limit:	Not applicable

SECTION 10 — STABILITY AND REACTIVITY

Reactivity:	Not reactive.
Stability Data:	Stable under normal conditions.

Conditions to Avoid:	Keep away ignition sources. See: Combustible Dust in Industry: Preventing and Mitigating the Effects of Fire and Explosions. Safety and Health Information Bulletin. SHIB 07-31-2005; updated 11-12-2014. https://www.osha.gov/dts/shib/shib073105.html
Incompatible Materials:	Avoid strong acids and oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition may produce carbon and nitrogen oxides.

SECTION 11 — TOXICOLOGICAL INFORMATION

Principle Route of Exposure

Inhalation:	May cause allergy or asthma symptoms or breathing difficulties if inhaled. Inhalation of dust may cause irritation of the nose, throat and respiratory passages. Symptoms include coughing, sore throat, nasal congestion, sneezing wheezing and shortness of breath.
Skin Contact:	Contact may cause dryness.
Eye Contact:	Contact may cause irritation based on studies with laboratory animals.
Ingestion:	Guar gum is a natural food additive, although direct use in powder or pill form is banned by the FDA due to the risk of respiratory or gastrointestinal blockage. Ingesting small amounts could cause complete blockage of the mouth, pharynx, trachea, esophagus and/or gastrointestinal system which may cause choking, suffocation and/or other life threatening medical conditions.

Toxicity

Acute Oral Toxicity:	LC50 Rat 9,400 mg/kg
Chronic Health Effects:	Prolonged overexposure to any nuisance dust may cause lung injury. Symptoms include cough, shortness of breath and reduced pulmonary function.
Carcinogenicity:	None of the components of this product are listed as carcinogens or suspected carcinogens by OSHA, IARC or NTP.
Genotoxicity:	No data available. This product is not expected to cause mutagenic activity.
Reproductive/Developmental Toxicity:	No data available. This product is not expected to cause adverse effects on reproduction or development.
Specific Target Organ Toxicity (Single Exposure):	No data available.
Specific Target Organ Toxicity (Repeated Exposure):	Prolonged overexposure to any nuisance dust may cause lung injury. Symptoms include cough, shortness of breath and reduced pulmonary function.

SECTION 12 — ECOLOGICAL INFORMATION

Toxicity:	No data available. This product is not expected to be toxic to aquatic organisms.
Mobility (Soil):	No mobility in soil expected
Bioaccumulative Potential:	Not expected to bioaccumulate.

Persistence/Degradability: No data available. Expected to be biodegradable.
Other Adverse Effects: None known.

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Method: Dispose of in accordance with federal, state and local regulations.
Empty Container: No special handling or disposal is required.
General Comments: It is the responsibility of the user of this product to characterize wastes generated to determine if the waste meets the definition of hazardous waste. The product uses, transformations, synthesis, mixtures, etc., may render the resulting end product subject to regulation.

SECTION 14 — TRANSPORT INFORMATION

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.

Sea Transportation

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

SECTION 15 — REGULATORY INFORMATION

US Regulations

US TSCA Inventory: All components are listed on the inventory or are exempt.
EPA SARA (302) Extremely Hazardous Substances: This material does not contain any components that are subject to 40CFR Section 302.
EPA SARA (311, 312): Fire Hazard, Acute Health
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 product, as sold, does not meet the criteria of a hazardous waste as defined by US EPA under RCRA (40CFR261).
California Prop 65: This product is not known to contain chemicals regulated under Proposition 65.

Canadian Regulations

Canadian DSL Inventory: All components are listed on the inventory or are exempt.

Australian Regulations

Australian AICS: All components are listed on the inventory or are exempt.

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.