



WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: **WYO-VIS® HP**
Chemical Family: Water soluble polymer
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: Not classified according to 29 CFR 1910.120 (d) and does not require a hazard warning label.
Signal Word: None
Hazard Statement: None
Hazard Symbol: None

Precautionary Statements

Prevention: None
Response: None
Storage: None
Disposal: None

Hazards Not Otherwise

Classified: Aqueous solutions or powders that become wet cause surfaces to become extremely slippery.

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	Percent
Distillates (petroleum), hydrotreated light	64742-47-8	20 - 45
Alcohols, C11 -14 – iso-, C13-rich, ethoxylated	78330-21-9	<3

SECTION 4 — FIRST AID MEASURES

Inhalation: Move to fresh air. No hazards that require special first aid measures.

Skin: Wash off immediately with soap and plenty of water while removing all contaminated clothes and shoes. If persistent irritation develops seek medical attention.

Eyes: Rinse immediately with plenty of water for at least 15 minutes with eyelids held open. Alternatively, rinse immediately with Diphoterine®. Get prompt medical attention.

Ingestion: Rinse mouth with water. Do NOT induce vomiting. Call a physician or poison control center immediately.

Most important symptoms and effects, both acute and delayed

None under normal use.

Indication of any immediate medical attention and special treatment needed

None under normal use..

Other information

Spills produce extremely slippery surfaces.

SECTION 5 — FIRE FIGHTING MEASURES

Suitable Fire Extinguishing Media: Water spray, foam, dry chemical or carbon-dioxide.

Unsuitable Extinguishing Media: None

Special Exposure Hazards: CAUTION! Spills produce extremely slippery surfaces.

Thermal Decomposition Products: Oxides of carbon and nitrogen; Hydrogen cyanide may be produced in the event of combustion in an oxygen deficit atmosphere.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus (SCBA) and protective suit.

NFPA Rating: Health 0, Flammability 1, Reactivity 0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Wear appropriate PPE (see Sec. 8). Do not touch or walk through spilled material. Spills produce extremely slippery surfaces. Keep people away from spill/leak.

Environmental Precautionary Measures: Do not allow product to contaminate drains or surface water systems.

Procedure for Cleaning/Absorption: Do not flush with water. For small spills, soak up with inert absorbent material. Sweep up and shovel into suitable containers for disposal. For large spills, clean up promptly by scoop or vacuum. Soak up residues with inert absorbent material. After cleaning, flush away traces with water.

SECTION 7 — HANDLING AND STORAGE

Handling

General advice: Handle in accordance with good industrial hygiene and safety practice. Avoid contact with skin and eyes. Causes surfaces to become extremely slippery when spilled. Do not eat, drink or smoke when using product.

Storage

General advice: Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the materials. Incompatible with oxidizing agents.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational exposure limits

Substances	CAS Number	ACGIH TLV-TWA
Distillates (petroleum), hydrotreated light	64742-47-8	200 mg/m ³ (8-hour)

Exposure controls: Use local exhaust if misting occurs. Natural ventilation is adequate in the absence of mists.

Personal protective equipment

Respiratory protection: No personal protective equipment normally required.

Hand protection: Chemical resistant protective gloves

Eye/face protection: Safety glasses with side-shields.

Skin and Body protection: Coveralls and/or chemical apron and rubber footwear where physical contact can occur.

General safety and hygiene measures: Handle in accordance with good industrial hygiene and safety practice. Wash hands and face before breaks, immediately after handling the product and at the end of the day.

Environmental exposure controls: Do not allow uncontrolled discharge of product into the environment. Do not allow to enter surface waters.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Viscous liquid

Color: Milky

Odor: Aliphatic

pH: 5-9 (0.5% aqueous solution)

Specific Gravity @ 20 C (Water=1): No data available

Bulk Density @ 20 C (KG/M³): 1000 - 1100

Boiling Point/Range (F/C): >212 / 100

Melting Point/Range (F/C): <41 / 5

Vapor Pressure @ 20 C (mmHg): 2.3 kPa

Vapor Density (Air=1): No data available

Percent Volatiles: No data available

Evaporation Rate (Butyl Acetate=1): No data available

Solubility in Water (g/100ml): Completely miscible

Decomposition Temperature: >150C

Partition Coefficient: Not applicable

Kinematic Viscosity @ 40 C (mm²/s): >20.5

Flash Point/Range (F/C): Does not flash

Autoignition Temperature (F/C): No data available

Explosive properties: Not expected to be explosive based on chemical structure.

Oxidizing properties: Not expected to be oxidizing based on chemical structure.

SECTION 10 — STABILITY AND REACTIVITY

Reactivity:	Stable under recommended storage conditions.
Chemical Stability Data:	Stable under recommended storage conditions.
Hazardous Reactions:	Oxidizing agents may cause exothermic reactions.
Conditions to Avoid:	Protect from frost heat and sunlight.
Incompatibility (Materials to Avoid):	Oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition may produce oxides of carbon (COx) and nitrogen (NOx); Hydrogen cyanide may be produced if oxygen is deficient.

SECTION 11 — TOXICOLOGICAL INFORMATION

Acute Oral Toxicity:	LD50/Rat/> 5000 mg/kg
Acute Dermal Toxicity:	LD50/Rat/> 5000 mg/kg
Acute Inhalation Toxicity:	Product is not expected to be toxic by inhalation.
Skin Corrosion / Irritation:	Non-irritating.
Serious Eye Damage / Irritation:	Slightly irritating
Respiratory / Skin Sensitization:	Not sensitizing.
Mutagenicity:	Not mutagenic
Carcinogenicity:	Not carcinogenic
Reproductive Toxicity:	Not a reproductive toxin.
STOT – single exposure:	No known effects
STOT – repeated exposure:	No known effects
Aspiration Hazard:	Due to viscosity, this product does not present an aspiration hazard.

SECTION 12 — ECOLOGICAL INFORMATION

Toxicity

Acute Fish Toxicity:	LC50/Fish/96 hours > 100 mg/l
Acute Invertebrate Toxicity:	EC50/Daphnia magna (Water Flea)/48 hours > 100 mg/l
Acute Algae Toxicity:	IC50/Algae/72 hours > 100 mg/L
Chronic toxicity to fish:	No data available
Chronic toxicity to invertebrates:	No data available
Toxicity to microorganisms:	No data available
Effects on terrestrial organisms:	No data available
Sediment toxicity:	No data available

Distillates (petroleum), hydrotreated light

Acute Fish Toxicity:	LC0/Oncorhynchus mykiss/96 hr >1000 mg/l (OECD 203)
Acute Invertebrate Toxicity:	EC50/Daphnia magna/48 hours > 1000 mg/l (OECD 202)
Acute Algae Toxicity:	IC50/Pseudokirchneriella subcapitata/72 hours > 1000 mg/L (OECD 201)
Chronic toxicity to fish:	NOEC/Oncorhynchus mykiss/28 daysr >1000 mg/l
Chronic toxicity to invertebrates:	NOEC/Daphnia magna/21 days > 1000 mg/l
Toxicity to microorganisms:	EC50/Tetrahymena pyroformis/48 hours > 1000 mg/l
Effects on terrestrial organisms:	No data available

Sediment toxicity:	No data available; Readily biodegradable.
<u>Alcohols, C11-14-iso-, C13-rich, ethoxylated</u>	
Acute Fish Toxicity:	LC0/Fish/96 hr 1-10 mg/l (Estimated)
Acute Invertebrate Toxicity:	EC50/Daphnia/48 hours 1-10 mg/l (Estimated)
Acute Algae Toxicity:	IC50/Algae/72 hours 1-10 mg/l (Estimated)
Chronic toxicity to fish:	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Chronic toxicity to invertebrates:	Harmful to aquatic organisms. May cause long-term adverse effects in the aquatic environment.
Toxicity to microorganisms:	No data available
Effects on terrestrial organisms:	No data available
Sediment toxicity:	No data available; Readily biodegradable.
<u>Persistence/Degradability</u>	
Degradation:	Not readily biodegradable.
Hydrolysis:	Does not hydrolyze.
Photolysis:	No data available.
<u>Distillates (petroleum), hydrotreated light</u>	
Degradation:	Readily biodegradable.
Hydrolysis:	Does not hydrolyze.
Photolysis:	No data available.
<u>Alcohols, C11-14-iso-, C13-rich, ethoxylated</u>	
Degradation:	Readily biodegradable.
Hydrolysis:	Does not hydrolyze.
Photolysis:	No data available.
<u>Bioaccumulative potential</u>	
Not expected to be bioaccumulating	
Partition coefficient (log Pow):	Not applicable
Bioconcentration factor (BCF):	No data available
<u>Distillates (petroleum), hydrotreated light</u>	
Partition coefficient (log Pow):	3 - 6
Bioconcentration factor (BCF):	No data available
<u>Alcohols, C11-14-iso-, C13-rich, ethoxylated</u>	
Partition coefficient (log Pow):	Not applicable
Bioconcentration factor (BCF):	No data available
Mobility in soil:	No data available.
<u>Distillates (petroleum), hydrotreated light</u>	
Koc:	No data available
<u>Alcohols, C11-14-iso-, C13-rich, ethoxylated</u>	
Koc:	No data available
Other adverse effects:	None

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Method:	Landfill or incinerate in accordance with federal, state and local regulations.
Contaminated Packaging:	Dispose of in accordance with federal, state and local regulations.

Recycling: The product and packaging are not suitable for recycling.

SECTION 14 — TRANSPORT INFORMATION

Land Transportation

DOT – Not classified

Canadian TDG – Not classified

Air Transportation

ICAO/IATA – Not classified

Sea Transportation

IMDG – Not classified

SECTION 15 — REGULATORY INFORMATION

US Regulations

US TSCA Inventory	All components are either listed on the inventory or are exempt from listing.
EPA SARA Title III Extremely Hazardous Substances	Not applicable, non-hazardous
EPA SARA (311, 312) Hazard Class	Not applicable, Non-hazardous
EPA RCRA Hazardous Waste Classification	Not considered a hazardous waste as defined by 40 CFR 261.
California Proposition 65:	WARNING! This product contains a chemical which is known to the State of California to cause cancer, birth defects or other reproductive harm. Acrylamide.

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.