



WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: **WYO-VIS® HP**
Chemical Family: Anionic water soluble polymer
Application: Drilling Fluid Additive

Manufacturer/Supplier: Wyo-Ben, Inc.
1345 Discovery Drive, P.O. Box 1979
Billings, MT 59102 USA
Telephone: 406.652.6351
Facsimile: 406.656.0748

SECTION 2 — COMPOSITION/INFORMATION ON INGREDIENTS

Substances	CAS Number	Percent	ACGIH TLV-TWA	OSHA PEL-TWA
Anionic water soluble polymer in emulsion	255987-30-8	>99.95%	None	None
Acrylamide	79-06-1	<0.05%	0.03mg/m ³	0.03mg/m ³

SECTION 3 — HAZARD IDENTIFICATION

Hazard Overview: **ACUTE HEALTH HAZARD**
May cause eye and skin irritation.

CHRONIC HEALTH HAZARD
Prolonged skin contact may defat skin producing dermatitis.

NOTE
Spills result in extremely slippery surfaces.

SECTION 4 — FIRST AID MEASURES

Inhalation: No hazards that require special first aid measures.

Skin: Wash immediately with plenty of soap and water. Seek medical attention if irritation persists.

Eyes: Immediately flush eyes with plenty of water, including under eye lids, and get medical attention if irritation persists.

Ingestion: The product is not considered toxic based on studies on laboratory animals..

SECTION 5 — FIRE FIGHTING MEASURES

Flash Point/Range (F):	Not applicable – does not flash.
Flash Point/Range (C):	Not applicable – does not flash.
Flash Point Method:	Not applicable
Autoignition Temperature (F):	Not applicable – does not ignite.
Autoignition Temperature (C):	Not applicable – does not ignite.
Flammability Limits in Air – Lower (%):	Not applicable
Flammability Limits in Air – Upper (%):	Not applicable
Fire Extinguishing Media:	All standard firefighting media.
Special Exposure Hazards:	CAUTION! extremely slippery when wet.
Special Protective Equipment for Firefighters:	Not applicable
NFPA Ratings:	Health 1, Flammability 1, Reactivity 0
HMIS Ratings:	Health 1, Flammability 1, Reactivity 0, PPE: C

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures:	No special precautions required. Wear appropriate PPE (see Sec. 8). Keep people away from spills / leaks.
Environmental Precautionary Measures:	Do not allow product to contaminate surface water systems.
Procedure for Cleaning/Absorption:	Do not flush with water. Dam up spills and soak up with inert absorbent material. If liquid has been spilled in large quantities, clean up promptly by scoop or vacuum. Keep in suitable, closed containers for disposal. After cleaning, flush away remaining traces with water.

SECTION 7 — HANDLING AND STORAGE

Handling Precautions:	Avoid contact with skin and eyes. When preparing the working solution ensure there is adequate ventilation. Do not smoke when using.
Storage Information:	Keep in a dry cool place (0 - 30 °C). Do not allow to freeze. Freezing will affect product physical condition and may damage the material.

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls:	Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.
Personal Protective Equipment	
Respiratory Protection:	In case of aerosol formation with insufficient ventilation wear suitable respiratory equipment.
Hand Protection:	Chemical resistant gloves.
Skin Protection:	Chemical resistant apron or protective suit if splashing or repeated contact with solution is likely.
Eye Protection:	Safety glasses with side-shields. Do not wear contact lenses where this product is used.
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:	Viscous liquid
Color:	Milky white
Odor:	Aliphatic
pH:	6 - 8 (0.5% aqueous solution)
Specific Gravity @ 20 C (Water=1):	Approximately 1.05
Density @ 20 C (lbs/gallon):	Approximately 8.74
Bulk Density @ 20 C (lbs/ft ³):	Approximately 65.4
Boiling Point/Range (F):	Not determined
Boiling Point/Range (C):	Not determined
Freezing Point/Range (F):	Not determined
Freezing Point/Range (C):	Not determined
Vapor Pressure @ 20 C (mmHg):	0.002
Vapor Density (Air=1):	Not determined
Percent Volatiles:	Not determined
Evaporation Rate (Butyl Acetate=1):	Not determined
Solubility in Water (g/100ml):	Approximately 0.5
Solubility in Solvents (g/100ml):	Not determined
VOCs (lbs/gallon):	Not determined
Viscosity, Dynamic @ 20 C (centipoise):	1200
Viscosity, Kinematic @ 20 C (centistokes):	> 20.5
Partition Coefficient/n-Octanol/Water:	Not determined
Molecular Weight (g/mole):	Not determined

SECTION 10 — STABILITY AND REACTIVITY

Stability Data:	Stable
Hazardous Polymerization:	Does not occur.
Conditions to Avoid:	Do not freeze.
Incompatibility (Materials to Avoid):	Oxidizing agents may cause exothermic reactions.
Hazardous Decomposition Products:	Thermal decomposition may produce oxides of carbon (CO _x) and nitrogen (NO _x) and hydrogen chloride (HCl) gas.
Additional Guidelines:	Not applicable

SECTION 11 — TOXICOLOGICAL INFORMATION

Principle Route of Exposure

Inhalation:	Aliphatic hydrocarbon vapor in areas of insufficient ventilation causing dizziness.
Skin Contact:	May cause slight skin irritation with susceptible persons.
Eye Contact:	May cause eye irritation with susceptible persons.
Ingestion:	None known
Aggravated Medical Conditions:	None known
Chronic Effects/Carcinogenicity:	Prolonged contact may cause defatting of the skin and produce dermatitis.
Other Information:	The product is not expected to be sensitizing

Toxicity Tests

Oral Toxicity:	LD50/Rat/> 5000 mg/kg.
Dermal Toxicity:	LD50/Rat/> 5000 mg/kg.
Inhalation Toxicity:	Not determined
Primary Irritation Effect:	Not determined
Carcinogenicity:	Polymer is not listed by IARC as a known or suspected carcinogen. IARC (1999) states acrylamide is probably carcinogenic to humans (Group 2A) and that there is inadequate evidence in humans but sufficient evidence in experimental animals for the carcinogenicity of acrylamide.
Genotoxicity:	Not determined
Reproductive/Developmental Toxicity:	Not determined

SECTION 12 — ECOLOGICAL INFORMATION

Mobility (Water/Soil/Air):	Miscible in water. Keep from entering natural water systems.
Persistence/Degradability:	Not readily biodegradable
Hydrolysis:	Does not hydrolyze
Bio-accumulation:	Not determined
Ecotoxicological Information	
Acute Fish Toxicity:	LC50/Danio rerio (Zebra Fish)/96 hours > 100 mg/l (OECD 203).
Acute Daphnia Toxicity:	EC50/Daphnia magna (Water Flea)/48 hours > 100 mg/l (OECD 202).
Acute Algae Toxicity:	IC50/Scenedesmus subspicatus (Grn. Algae)/72 hours > 100 mg/l (OECD 201).
Chemical Fate Information:	Not determined
Other Information:	Does not readily biodegrade.

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Method:	Landfill in accordance with federal, state and local regulations.
Contaminated Packaging:	Rinse empty containers with water and use the rinse water to prepare additional working solutions. Container can be landfilled or incinerated, in compliance with local, state and federal regulations.

SECTION 14 — TRANSPORT INFORMATION

Land Transportation

DOT – Not classified as dangerous
Canadian TDG – Not classified as dangerous
ADR/RID – Not classified as dangerous in the meaning of these regulations

Air Transportation

ICAO/IATA – Not classified as dangerous.

Sea Transportation

IMDG/IMO – Not classified as dangerous.

Other Transportation Information

Labels: None

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 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	As product > 2,000,000 lbs (as Acrylamide, 1000 lbs)
EPA RCRA Hazardous Waste Classification	If product becomes a waste, it does not meet the criteria of a hazardous waste as defined by 40 CFR 261.
California Proposition 65	WARNING! This product contains acrylamide, a chemical which is known to the State of California to cause cancer, birth defects or other reproductive harm.

Canadian Regulations

Canadian DSL Inventory	All components are either listed on the inventory or are exempt from listing.
WHMIS Hazard Class	Not applicable, Non-hazardous

SECTION 16 — OTHER INFORMATION

None

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.