



WYO-BEN, INC.

SAFETY DATA SHEET

SECTION 1 — CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

Product Trade Name: **FLOWMASTER® LV**
Chemical Family: Polyanionic Cellulose
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
Signal Word: None
Hazard Statements: None
Hazard Symbol: None

Precautionary Statements

Prevention: Observe good industrial hygiene practices
Response: Wash hands after handling
Storage: Store away from incompatible materials
Disposal: Dispose of waste and residues in accordance with local authority requirements

Hazards Not Otherwise Classified: None known

Supplemental Information: None

SECTION 3 — COMPOSITION/INFORMATION ON INGREDIENTS

No hazardous ingredients according to 29 CFR 1910.1200

Component	CAS-No.	Weight %
Sodium Carboxymethylcellulose	9004-32-4	90 - 100

SECTION 4 — FIRST AID MEASURES

General advice: No hazards which require special first aid measures.
Inhalation: If breathed in, move person into fresh air. If unconscious place in recovery position and seek

medical advice. If symptoms persist, call a physician.

Skin: Wash off with soap and water. Get medical attention if irritation develops and persists.

Eyes: Remove contact lenses and flush eyes with plenty of water, including under eye lids. Get medical attention if irritation develops and persists.

Ingestion: The product is not considered toxic. Rinse mouth with water. Never give anything by mouth to an unconscious person. Get medical attention if symptoms develop.

Most important symptoms and effects, both acute and delayed: Dusts may irritate the respiratory tract, skin and eyes.

Indication of immediate Medical attention and Special treatment needed: Treat symptomatically

Notes to physician: No hazards which require special first aid measures.

SECTION 5 — FIRE FIGHTING MEASURES

Suitable Fire Extinguishing Media: Water fog. Foam. Dry chemical powder. Carbon dioxide (CO₂).

Unsuitable Media: Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards during firefighting: During fire, gases hazardous to health may be formed. Do not allow run-off from firefighting to enter drains or water courses.

Special Exposure Hazards: CAUTION! Extremely slippery when wet.

Special Protective Equipment for Firefighters: Wear self-contained breathing apparatus and full protective clothing.

General Fire Hazards: No unusual fire or explosion hazards noted.

NFPA Ratings: Health 0, Flammability 1, Reactivity 0

SECTION 6 — ACCIDENTAL RELEASE MEASURES

Personal Precautionary Measures: Avoid dust formation. Avoid breathing dust. Material can create slippery conditions. Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed.

Environmental Precautionary Measures: Prevent further leakage or spillage if safe to do so. Do not allow product to contaminate surface water systems.

Procedure for Cleaning/Absorption: Stop the flow of material, if this is without risk. Collect dust using a vacuum cleaner equipped with HEPA filter.

Large Spills: Wet down with water and dike for later disposal. Shovel the material into waste container. Avoid the generation of dusts during clean-up. Following product recovery, flush area with water.

Small Spills: Sweep up or vacuum up spillage and collect in suitable container for disposal.

Dispose in accordance with all local, state and federal regulations.

SECTION 7 — HANDLING AND STORAGE

Handling Precautions: Avoid dust formation. Ensure all equipment is electrically grounded and bonded before

beginning transfer operations. Provide appropriate exhaust ventilation at places where dust is formed. Practice good housekeeping.

Conditions for Safe Storage: Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

Storage Information: Keep in a dry cool place (0 - 30 °C).

SECTION 8 — EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Provide appropriate exhaust ventilation at places where dust is formed. General room ventilation should be adequate for normal conditions of use. However, if unusual operating conditions exist, provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below exposure guidelines (if applicable) or below levels that cause known, suspected or apparent adverse effects.

Personal Protective Equipment

Respiratory Protection: Use a NIOSH/MSHA approved respirator if there is a risk of exposure to dust/fume at levels exceeding the exposure limits.

Skin and body protection: Wear suitable protective clothing: Safety shoes, Chemical resistant gloves (consult your safety equipment supplier).

Eye Protection: Safety glasses with side-shields.

Other Precautions: Avoid breathing dust. Wash hands and face before breaks and immediately after handling the product. Routinely wash work clothing and protective equipment to remove contaminants. Handle in accordance with good industrial hygiene and safety practice.

SECTION 9 — PHYSICAL AND CHEMICAL PROPERTIES

Physical State:	Powdered solid
Color:	White to light yellow
Odor:	None
pH:	Not determined
Specific Gravity @ 20 C (Water=1):	Not determined
Bulk Density @ 20 C (kg/m ³):	Not determined
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:	0
Evaporation Rate (Butyl Acetate=1):	Not applicable
Solubility in Water (g/100ml):	Not determined
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

Flash Point/Range (F/C):	Not determined
Flash Point Method:	Not applicable
Autoignition Temperature (F/C):	Not determined
Flammability Limits in Air – Upper/Lower (%):	Not determined

SECTION 10 — STABILITY AND REACTIVITY

Reactivity:	Stable and non-reactive under normal conditions of use, storage and transport.
Hazardous Reactions:	No dangerous reaction known under conditions of normal use.
Conditions to Avoid:	Contact with incompatible materials. Keep away from heat, flame, sparks and other ignition sources.
Incompatibility (Materials to Avoid):	Strong oxidizing agents.
Hazardous Decomposition Products:	Thermal decomposition may produce oxides of carbon (COx).
Additional Guidelines:	Not applicable

SECTION 11 — TOXICOLOGICAL INFORMATION

Principle Route of Exposure

Inhalation	Dust may irritate respiratory system.
Skin	Dust may irritate the skin.
Eye	Dust may irritate eyes.
Ingestion	Expected to be a low ingestion hazard

Acute Toxicity

Acute Inhalation toxicity:	LD50/Rat/> 5800 mg/l
Acute dermal toxicity:	LD50/Rabbit/> 2000 mg/kg.

Skin Corrosion/Irritation

Prolonged skin contact may cause temporary irritation.

Serious eye damage/eye irritation

Direct contact with eyes may cause temporary irritation.

Respiratory or skin sensitization

Skin sensitization:	Not classified based on available information.
Respiratory sensitization:	Not classified based on available information.

Germ cell mutagenicity

Not classified based on available information.

Carcinogenicity

Not classified based on available information. No component of this product present at levels greater than or equal to 0.1% is identified as a probable, possible, potential, known, anticipated or confirmed human carcinogen by IARC, ACGIH, OSHA or NTP.

Reproductive toxicity

Not classified based on available information.

STOT - single exposure

Not classified based on available information.

STOT - repeated exposure

Not classified based on available information.

Aspiration toxicity

Not classified based on available information.

Additional Information:

None

SECTION 12 — ECOLOGICAL INFORMATION

<u>Ecotoxicity</u>		The product is not classified as environmentally hazardous. However, this does not exclude the possibility that large or frequent spills can have a harmful or damaging effect on the environment.
<u>Aquatic</u>	Fish:	LC50/Oncorhynchus mykiss (Rainbow Trout)/96 hr/ > 20000 mg/l LC50/Carassius carassius (Crucian carp)/96 hr/ > 20000 mg/l
	Crustacea:	LC50/Cragon cragon (Common shrimp)/48 hr/1000-3300 mg/l
	Mobility (Water/Soil/Air):	No data available
	Persistence/Degradability:	No data available
	Bio-accumulation:	No data available

SECTION 13 — DISPOSAL CONSIDERATIONS

Disposal Method:	Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Dispose in accordance with federal, state and local regulations.
Contaminated Packaging:	Empty container. 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 goods.

Canadian TDG – Not classified as dangerous goods.

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

Air Transportation

ICAO/IATA – Not classified as dangerous goods.

Sea Transportation

IMDG/IMO – Not classified as dangerous goods.

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 material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.
EPA CERCLA/Superfund	Not listed
California Proposition 65	This product Does Not contains any chemical which is known to the State of California to cause cancer, birth defects or other reproductive harm.

Canadian Regulations

FLOWMASTER® LV
1.800.548.7055

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

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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.