



PAC-LV

SECTION I – CHEMICAL PRODUCT/CHEMICAL IDENTIFICATION

Product Name: PAC-LV
Manufacturer: Horizon Mud Company
500 West Wall, Suite 280
Midland, Texas 79702
(432) 687-1171
Chemical Family: Polyanionic Cellulose (PAC)
Product Use: Oil Field Process Chemical

Emergency Telephone Number:
CHEMTREC: 1-800-424-9300 or International +1-703-527-3887

SECTION II – COMPOSITION/INFORMATION ON INGREDIENTS

Components:	%	CAS#
Polyanionic Cellulose	100	9004-34-6

SECTION III – HAZARDS IDENTIFICATION

☆☆☆☆☆ **Emergency Overview** ☆☆☆☆☆

Appearance: White to light grey powder. **Caution!** May cause eye and skin irritation. May cause respiratory and digestive tract irritation.

Potential Health Effects

Target Organs: eyes, skin, respiratory system

Primary Entry Routes: skin contact/absorption, inhalation of generated dust

Acute Effects

Inhalation: The dust may be discomfoting to the upper respiratory tract.

Eye: The material is moderately discomfoting to the eyes and is capable of causing a mild, temporary redness of the conjunctiva (similar to wind-burn), temporary impairment of vision and/ or other transient eye damage/ ulceration.

Skin: The material may be mildly discomfoting to the skin. Open cuts and abraded or irritated skin should not be exposed to this material. The material may accentuate any pre-existing skin condition.

Ingestion: The material is moderately discomfoting to the gastrointestinal tract and may be harmful if swallowed in large quantity.

Carcinogenicity: IARC, NTP, ACGIH, and OSHA do not list Polyanionic Cellulose as a carcinogen.

SECTION IV – FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin: Get medical aid. Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Do NOT induce vomiting. If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.

Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid. Do NOT use mouth-to-mouth resuscitation.

After first aid, get appropriate in-plant, paramedic, or community medical support.

Note to Physicians: Treat symptomatically and supportively.

SECTION V – FIRE FIGHTING MEASURES

Flash Point: Not available

Autoignition Temperature: Not applicable

LEL: Not available

UEL: Not available

Flammability Classification: Solid which exhibits difficult combustion or is difficult to ignite.

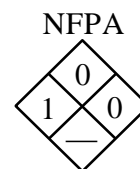
Extinguishing Media: Water spray or fog. Foam. Dry chemical powder. BCF (where regulations permit). Carbon dioxide. Use agent most appropriate to extinguish fire.

Unusual Fire or Explosion Hazards: Avoid generating dust, particularly clouds of dust in a confined or unventilated space, as dust may form an explosive mixture with air and any source of ignition, e.g., flame or spark, will cause fire or explosion.

Hazardous Combustion Products: Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

Fire-Fighting Instructions: Do not release runoff from fire control methods to sewers or waterways.

Fire-Fighting Equipment: Because fire may produce toxic thermal decomposition products, wear a self-contained breathing apparatus (SCBA) with a full face-piece operated in pressure-demand or positive-pressure mode.



SECTION VI – RELEASE MEASURES

Spill /Leak Procedures: Eliminate all ignition sources. Ventilate area.

Small Spills: Vacuum or sweep up material and place into a suitable disposal container. Clean up spills immediately, observing precautions in the Protective Equipment section.

Large Spills

Containment: For large spills, dike far ahead of spill for later disposal. Do not release into sewers or waterways.

Cleanup: Avoid generating dusty conditions. Provide ventilation.

Regulatory Requirements: Follow applicable OSHA regulations (29 CFR 1910.120).

SECTION VII – HANDLING AND STORAGE

Handling Precautions: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin, and clothing. Keep container tightly closed. Avoid ingestion and inhalation.

Storage Requirements: Store in a tightly closed container. Store in a cool, dry, well-ventilated area away from incompatible substances.

SECTION VIII – PERSONAL PROTECTION / EXPOSURE CONTROL

Engineering Controls:

Ventilation: Provide general or local exhaust ventilation systems to maintain airborne concentrations below OSHA PELs (Sec. 2). Local exhaust ventilation is preferred because it prevents contaminant dispersion into the work area by controlling it at its source.

Administrative Controls:

Respiratory Protection: Seek professional advice prior to respirator selection and use. Follow OSHA respirator regulations (29 CFR 1910.134) and, if necessary, wear a MSHA/NIOSH-approved respirator. Select respirator based on its suitability to provide adequate worker protection for given working conditions, level of airborne contamination, and presence of sufficient oxygen. For emergency or non-routine operations (cleaning spills, reactor vessels, or storage tanks), wear an SCBA.

Warning! Air-purifying respirators do not protect workers in oxygen-deficient atmospheres. If respirators are used, OSHA requires a written respiratory protection program that includes at least: medical certification, training, fit-testing, periodic environmental monitoring, maintenance, inspection, cleaning, and convenient, sanitary storage areas.

Protective Clothing/Equipment: Wear chemically protective gloves, boots, aprons, and gauntlets to prevent prolonged or repeated skin contact. Wear protective eyeglasses or chemical safety goggles, per OSHA eye- and face-protection regulations (29 CFR 1910.133). Contact lenses are not eye protective devices. Appropriate eye protection must be worn instead of, or in conjunction with contact lenses.

Safety Stations: Make emergency eyewash stations, safety/quick-drench showers, and washing facilities available in work area.

Contaminated Equipment: Separate contaminated work clothes from street clothes. Launder before reuse. Remove this material from your shoes and clean personal protective equipment.

Comments: Never eat, drink, or smoke in work areas. Practice good personal hygiene after using this material, especially before eating, drinking, smoking, using the toilet, or applying cosmetics.

SECTION IX – PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Solid

Appearance: White to light grey powder

Odor:

Vapor Pressure:

Vapor Density (Air=1):

Formula Weight:

Density/Specific Gravity (H₂O=1, at 4 °C): 1.45

pH:

Water Solubility:

Other Solubilities:

Boiling Point: °C

Freezing/Melting Point: °C

Viscosity:

Refractive Index:

Surface Tension:

% Volatile:

Evaporation Rate (BuAc=1):

SECTION X – STABILITY AND REACTIVITY

Stability: Polyanionic Cellulose is stable at room temperature in closed container under normal storage and handling conditions.

Polymerization: Hazardous polymerization will not occur.

Chemical Incompatibilities: Incompatible with oxidizing agents.

Conditions to Avoid: Ignition sources, dust generation, excess heat, strong oxidants.

Hazardous Decomposition Products: Thermal oxidative decomposition of Polyanionic Cellulose can produce carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

SECTION XI – TOXICOLOGICAL INFORMATION

Toxicity Data: *

Acute Oral Effects:

Rat, oral, LD₅₀: > 5000 mg/kg

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Neurotoxicity: No information available.

Mutagenicity: No information available.

* See NIOSH, *RTECS(FJ5700000)*, for additional toxicity data.

SECTION XII – ECOLOGICAL INFORMATION

Ecotoxicity: No data available.

Environmental:

Physical: No information found.

SECTION XIII – DISPOSAL CONSIDERATIONS

Disposal: Contact your supplier or a licensed contractor for detailed recommendations. Follow applicable Federal, state, and local regulations.

SECTION XIV – TRANSPORTATION INFORMATION

DOT Transportation Data (49 CFR 172.101): Not Regulated

Shipping Name:

Shipping Symbols:

Hazard Class:

ID No.:

Packing Group:

Label:

Packaging Authorizations

a) Exceptions:

b) Non-bulk Packaging:

c) Bulk Packaging:

Special Provisions (172.102):

Quantity Limitations

a) Passenger, Aircraft, or Railcar:

b) Cargo Aircraft Only:

Vessel Stowage Requirements

a) Vessel Stowage:

b) Other:

SECTION XV – REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 9004-34-6 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depleters. This material does not contain any Class 2 Ozone depleters.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 9004-34-6 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

S 24/25 Avoid contact with skin and eyes.

WGK (Water Danger/Protection)

CAS# 9004-34-6: No information available.

Canada - DSL/NDSL

CAS# 9004-34-6 is listed on Canada's DSL List.

Canada - WHMIS

WHMIS: Not available.

SECTION XVI – OTHER INFORMATION

Disclaimer:

The information and data herein are believed to be accurate and have been compiled from sources believed to be reliable. It is offered for your consideration, investigation and verification. Buyer assumes all risk of use, storage and handling of the product in compliance with applicable Federal, State and local law and regulations.

Horizon Mud Company makes no warranty of any kind, express or implied, concerning the accuracy or completeness of the information and data herein. The implied warranties of merchantability and fitness for a particular purpose are specifically excluded. Horizon Mud Company will not be liable for claims relating to any use of this product.