

Safety Data Sheet

Polyanionic Cellulose (PAC)

SECTION 1: IDENTIFICATION

Product Name: Polyanionic Cellulose

CAS Number: 9004-32-4

Chemical Name: Polyanionic Cellulose

Synonyms: PAC

Uses: Drilling Fluid

Company

Xuzhou Liyuan Cellulose Technologies Co.,Ltd
Huashan Industry Park, Feng County,Xuzhou City,
Jiangsu Province, China
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Business Contact

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SECTION 2: HAZARD IDENTIFICATION

This product has been classified in accordance with the hazard communication standard 29 CFR 1910.1200; the SDS and labels contain all the information as required by the standard.

Warning



FORM	PHYSICAL STATE	COLOR	ODOR
Powder	Solid	White to off-white	No odor
OSHA Hazards: Combustible dust			

Hazard Statements:

May form combustible dust concentration in air

SECTION 3: COMPOSITION / INFORMATION ON INGREDIENTS

CAS #	Content (W/W)	Component
9004-32-4	100%	Polyanionic Cellulose

SECTION 4: FIRST AID MEASURES

General advice: No hazards which require special first aid measure

If inhaled: If unconscious place in recovery position and seek medical advice. If symptoms persist, call a physician.

In case of skin contact: Wash off with soap and water

In case of eye contact: Remove contact lenses. Protect unharmed eye, If eye irritation persists, consult a specialist

If swallowed: Keep respiratory tract clear. Never give anything by mouth to an unconscious person. If symptoms persist, call a physician

SECTION 5: FIRE FIGHTING MEASURES

Flash Point: Not applicable

Lower/Upper explosion limit: Not applicable

Suitable extinguishing media: Use extinguishing measures that are appropriate to local circumstances and the surrounding environment. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a potential dust explosion hazard. Provide appropriate exhaust ventilation at places where dust is formed.

Special hazards arising from the substance or mixture: Risks of ignition followed by flame propagation or secondary explosions can be caused by the accumulation of dust, e.g. on floors and ledges.

Advice for firefighters: Wear self-contained breathing apparatus for firefighting if necessary. Standard procedure for chemical fires.

SECTION 6: ACCIDENTAL RELEASE MEASURES

Containment: Avoid dust formation

Clean-up Procedures: Pick up and arrange disposal without creating dust. Clean up promptly by sweeping or vacuum. Keep in suitable, closed containers for disposal.

Special Instructions: Contaminated surfaces will be extremely slippery. Avoid spillage on floor as the product can become very slippery when wet. Sweep up to prevent slipping hazard. 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 concentration. Avoid dispersal of dust in the air (i.e., clearing dust surfaces with compressed air).

SECTION 7: HANDLING AND STORAGE

Handling: Smoking, eating and drinking should be prohibited in the application area. Electrostatic charge may accumulate and create a hazardous condition when handling this material. To minimize this hazard, bonding and grounding may be necessary, but may not by themselves be sufficient. Avoid generating dust; fine dust dispersed in air in sufficient concentrations, and in the presence of an ignition source is a

potential dust explosion hazard. Provide appropriate exhaust ventilation at places where dust is formed.

Storage: Electrical installations / working materials must comply with the technological safety standards.

SECTION 8: EXPOSURE CONTROLS AND PERSONAL PROTECTION

Personal Protective Equipment (PPE)

Respiratory protection: Wear a supplied-air NIOSH approved respirator unless ventilation or other engineering controls are adequate to maintain minimal oxygen content of 19.5% by volume under normal atmospheric pressure. Wear a NIOSH approved respirator that provides protection when working with this material if exposure to harmful levels of airborne material may occur, such as: Air-Purifying Respirator for Dusts and Mists / P100. Use a positive pressure, air-supplying respirator if there is potential for uncontrolled release, exposure levels are not known or other circumstances where air-purifying respirators may not provide adequate protection.

Hand protection: The suitability for a specific workplace should be discussed with the producers of the protective gloves. Please observe the instructions regarding permeability and breakthrough time which are provided by the supplier of the gloves. Also take into consideration the specific local conditions under which the product is used, such as the danger of cuts, abrasion, and the contact time. Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough.

Eye protection: Eye wash bottle with pure water. Safety glasses.

Body protection: Choose body protection in relation to its type, to the concentration and amount of dangerous substances, and to the specific work-place. Wear as appropriate: Protective suit. Safety shoes.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Appearance	Form: Powder, solid, white to off-white
Odor	No Odor
Odor Threshold	not applicable
pH	not applicable
Melting point/freezing Point	not applicable
Initial boiling point and boiling range	not applicable
Flash point	not applicable
Evaporation rate	not applicable
Flammability (solid, gas)	not applicable
Upper/lower flammability or explosive limits	not applicable
Vapor pressure	not applicable
Vapor density	1500 kg/m ³
Specific gravity	not applicable
Water solubility	soluble at 20°C
Partition Coefficient:	not determined)

n-octanol/water

Auto-ignition temperature >250°F

Decomposition temperature: no data available

Explosive properties: Dust explosion hazard (Class ST1)

Acid Number 197 typical

SECTION 10: STABILITY AND REACTIVITY

Conditions to avoid: Generation of Dusts.

Substances to avoid: not relevant

Hazardous reactions: dust formation maybe combustible

Decomposition products: No decomposition if stored and applied as directed.

SECTION 11: TOXICOLOGICAL INFORMATION

Acute oral toxicity

Polyanionic Cellulose: LD50: 27,000 mg/kg Species: Rat

Acute inhalation toxicity

Polyanionic Cellulose: LC50: > 5800 mg/m³ Exposure time: 4 h Species: Rat

Acute dermal toxicity

Polyanionic Cellulose: LD50: > 2,000 mg/kg Species: Rabbit

The product contains no substances classified as hazardous to health in concentrations which should be taken into account.

SECTION 12: ECOLOGICAL INFORMATION

Ecotoxicity: This material is not expected to be harmful to aquatic organisms.

Biodegradability: This material is expected to be readily biodegradable.

SECTION 13: DISPOSAL CONSIDERATIONS

Waste disposal of substance: Use material for its intended purpose or recycle if possible. This material, if it must be discarded, may meet the criteria of a hazardous waste as defined by US EPA under RCRA (40 CFR 261) or other State and local regulations. Measurement of certain physical properties and analysis for regulated components may be necessary to make a correct determination. If this material is classified as a hazardous waste, federal law requires disposal at a licensed hazardous waste disposal facility.

Container disposal: Empty containers should be taken to an approved waste handling site for recycling or disposal.

SECTION 14: TRANSPORT INFORMATION

US DOT (UNITED STATES DEPARTMENT OF TRANSPORTATION)

NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IMO / IMDG (INTERNATIONAL MARITIME DANGEROUS GOODS)
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

IATA (INTERNATIONAL AIR TRANSPORT ASSOCIATION)
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADR (AGREEMENT ON DANGEROUS GOODS BY ROAD (EUROPE))
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

RID (REGULATIONS CONCERNING THE INTERNATIONAL TRANSPORT OF DANGEROUS GOODS (EUROPE))
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

ADN (EUROPEAN AGREEMENT CONCERNING THE INTERNATIONAL CARRIAGE OF DANGEROUS GOODS BY INLAND WATERWAYS)
NOT REGULATED AS A HAZARDOUS MATERIAL OR DANGEROUS GOODS FOR TRANSPORTATION BY THIS AGENCY.

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

SECTION 15: REGULATORY INFORMATION

National legislation

SARA 311/312 Hazards: Fire Hazard

EPCRA - EMERGENCY PLANNING COMMUNITY RIGHT - TO – KNOW

CERCLA Reportable Quantity: This material does not contain any components with a CERCLA RQ.

SARA 302 Reportable Quantity: This material does not contain any components with a SARA 302 RQ.

SARA 302 Threshold Planning Quantity: No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

SARA 304 Reportable Quantity: This material does not contain any components with a section 304 EHS RQ.

SARA 313 Ingredients: 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.

Clean Air Act

Ozone-Depletion Potential: This product neither contains, nor was manufactured with a Class I or Class II ODS as defined by the U.S. Clean Air Act Section 602 (40 CFR 82, Subpt. A, App.A + B).

This product does not contain any hazardous air pollutants (HAP), as defined by the U.S. Clean Air Act Section 12 (40 CFR 61).

This product does not contain any chemicals listed under the U.S. Clean Air Act Section 112(r) for Accidental Release Prevention (40 CFR 68.130, Subpart F).

US State Regulations

Pennsylvania Right To Know: No components are subject to the Pennsylvania Right to Know Act.

New Jersey Right To Know: No components are subject to the New Jersey Right to Know Act.

California Prop. 65 Ingredients: This product does not contain any chemicals known to the State of California to cause cancer, birth, or any other reproductive defects.

SECTION 16: OTHER INFORMATION

DISCLAIMER OF RESPONSIBILITY

The information on this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, expressed or implied, regarding its correctness. Some information presented and conclusions drawn herein are from sources other than direct test data on the substance itself. The conditions or methods of handling, storage, use and disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage, or expense arising out of or in any way connected with handling, storage, use, or disposal of this product. If the product is used as a component in another product, this SDS information may not be applicable.

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