
MATERIAL SAFETY DATA SHEET

SECTION 1-CHEMICAL PRODUCT AND COMPANY

IDENTIFICATION

MSDS Identification:

Name: Poly Anionic Cellulose (PAC)

Company:

Add:

Tel:

SECTION 2-COMPOSITION, INFORMATION ON

INGREDIENT

Cas#	Chemical Name	%	EINE CA#
9004-32-4	Poly Anionic Cellulose (PAC)	Ca100	None listed

Hazard Symbols: None Listed.

Risk Phrases: None Listed.

SECTION 3-HAZARDS INDICATION

EMERGENCY OVERVIEW

Appearance: white or yellowish free flowing powder, free from signs of impurities.

The toxicological properties of this material have not been investigated.

Target Organs: No data found.

POTENTIAL HEALTH EFFECTS

Eye: The toxicological properties of this material have not been investigated.

Skin: The toxicological properties of this material have not been investigated.

Ingestion: The toxicological properties of this substance have not been investigated.

Inhalation: The toxicological properties of this substance have not been

investigated.

Chronic: No information found.

SECTION 4-FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for washing immediately, occasionally lifting the upper and lower eyelids.

Skin: Flush skin with plenty of water for washing, while removing contaminated clothing and shoes. Washing clothing before reuse.

Ingestion: Do not give anything by mouth to an unconscious person. If it is conscious and alert, rinsing mouth with plenty of water.

Inhalation: Not available.

Notes to Physician: Treat symptomatically and supportively.

SECTION 5-FIRST FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases can't be generated by thermal decomposition or combustion.

Extinguishing Media: Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Auto-ignition Temperature: Not applicable.

Flash Point: Not applicable.

Explosion Limits, lower: Not available.

Explosion Limits, upper: Not available.

NFPA Rating: (estimated) Health: 1; Flammability: 0; Instability: 0

SECTION 6-ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.

Spills/Leaks: Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

SECTION 7-HANDLING AND STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use adequate ventilation. Minimize dust generation and

accumulation.

Storage: Store in a cool, dry, well-ventilated area away from poisonous materials.

SECTION 8-EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.

EXPOSURE LIMITS

Chemical Name	ACGIH	NIOSH	OSHA - Final PELs
Poly Anionic Cellulose (PAC)	None listed	None listed	None listed

OSHA Vacated PELs:

Poly Anionic Cellulose (PAC): No OSHA Vacated PELs are listed for this chemical.

PERSONAL PROTECTIVE EQUIPMENT

Eyes: Not applicable.

Skin: Not applicable.

Clothing: Not available.

Respirators: Not available.

SECTION 9-PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Free flowing powder, free from signs of impurities.

Color: White or yellowish.

Odor: Odorless.

PH: 6.0-9.0

Vapor Pressure: Not available.

Vapor Density: Not available.

Evaporation Rate: Not available.

Boiling Point: Not available.

Freezing/Melting Point: Not available.

Decomposition Temperature: Above 300°C.

Solubility in water: Compatible completely.

Specific Gravity/Density: 0.50-0.75

Molecular Formula: $[C_6H_7O_2(OH)_2OCH_2COONa]_n$

Molecular Weight: 6400 ± 1000

SECTION 10-STABILITY AND REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.

Conditions to Avoid: Incompatible materials, dust generation, excess heat, strong oxidants.

Incompatibilities with Other Materials: Alcohol, Acetone.

Hazardous Decomposition Products: Oxidizing agents.

Hazardous Polymerization: Has not been reported.

SECTION 11-TOXIOLOGICAL INFORMATION

RTECS#:

- CAS# 9004-32-4:
- LD50/LC50:

Not available.

Carcinogenicity:

Poly Anionic Cellulose (PAC) -

- Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.

Epidemiology: No information available.

Teratogenicity: No information available.

Reproductive Effects: No information available.

Neurotoxicity: No information available.

Mutagenicity: No information available.

Other Studies: No data available.

SECTION 12-ECOLOGICAL INFORMATION

No information found.

SECTION 13-DISPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

RCRA P-Series: None listed.

RCRA U-Series: None listed.

SECTION 14-TRANSPORT INFORMATION

US DOT

- No information available

Canadian TDG

- No information available.

SECTION 15-REGULATORY INFORMATION

US FEDERAL

TSCA

- CAS# 9004-32-4 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

CERCLA Hazardous Substances and corresponding RQs

- None of the chemicals in this material have an RQ.

SARA Section 302 Extremely Hazardous Substances

- 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 depletery.
- This material does not contain any Class 2 Ozone depletery.

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.

Poly Anionic Cellulose (PAC) is not present on state lists from CA, PA, MN, MA, FL, or NJ.

STATE

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 contacting with eyes.

S 28A After contacting with skin, washing with plenty of water immediately.

S 37 Wear suitable gloves.

S 45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

WGK (Water Danger/Protection)

- CAS# 9004-32-4

United Kingdom Occupational Exposure Limits

United Kingdom Maximum Exposure Limits

Canada

- CAS# 9004-32-4 is listed on Canada's DSL List.
- WHMIS: Not available.
- CAS# 9004-32-4 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

SECTION 16-ADDITIONAL INFORMATION

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship. It is recommended that user of this material has to follow the related guideline & regulation.