



MATERIAL SAFETY DATA SHEET

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Q’PAC HV REGULAR

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: Q’PAC HV
Chemical Family: Polyanionic Cellulose Polymer
WHMIS Classification: Not applicable
Workplace Hazard: Slip hazard when spilled material becomes wet.

Product Use: Fluid Loss Reducer
TDG Classification: Not applicable
Packaging Group: Not applicable
PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent	CAS Number	LD ₅₀ (Species/Route)	LC ₅₀ (Species/Route)
None	-	-	-	-

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: CMC dust may irritate the eyes. Prolonged contact with the dry powder may cause drying or chapping. Inhalation of dust may cause respiratory tract irritation. Hygroscopic properties of the gum can form a paste or gel in the airway. No toxic if swallowed (less than a mouthful) based on available information.

Effects of chronic exposure: NaCMC is non toxic. The dry powder may cause foreign body irritation in some individuals. Prolonged contact with the dry powder may cause drying or chapping of the skin. Excessive inhalation of dust may be annoying and can mechanically impede respiration. Due to the hygroscopic properties, they can form a paste or gel in the airway.

Exposure limits:

COMPONENT(S)	OSHA PEL	ACGIH TLV
Polyanionic cellulose (PAC), cellulose ether	15 mg/m ³ (total dust) 8-hr TWA 5 mg/m ³ (respirable) 8-hr TWA	Not established

Dust: OSHA has not established specific exposure limits for this material. However, OSHA has established limits for particulates not otherwise regulated (PNOR) which are the least stringent exposure limits applicable to dusts.

Exposure Guidelines HTP values for organic dust 8h 5 mg/m³ 15 min, 10 mg/m³

Sensitization to product: Not applicable

Carcinogenicity: NaCMC is non carcinogenic. Polyanionic cellulose (PAC), cellulose ether is not listed as a carcinogen by NTP. Not regulated as a carcinogen by OSHA. Not evaluated by IARC.

Reproductive toxicity: No information available

Teratogenicity: No information available



Mutagenicity: NaCMC is non mutagenic

Name of toxicological synergistic products: Not applicable

SECTION IV: FIRST AID MEASURES

General Advice: Remove material from eyes, skin and clothing. In case of doubt or when symptoms persist, seek medical attention. Wash heavily contaminated clothing before reuse.

Skin contact: Wash off with soap and plenty of water.

Eye contact: Hold eyelids apart and flush eyes with a steady, gentle stream of water for several minutes. If eye irritation persists, seek medical attention.

Inhalation: Move to fresh air. If symptoms persist, call a physician. If not breathing, give artificial respiration

Ingestion: No significant adverse health effects are expected to develop if only small amounts (less than a mouthful) are swallowed.

SECTION V: PHYSICAL DATA

Physical state: Hygroscopic powder or granulate

Appearance and odour: White or yellowish. Odourless

Odour threshold: Not applicable

Relative Density: Relative Density 550 - 670 kg/m³

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not applicable

Boiling point (°C): Not applicable

Freeze/Melting point (°C) Not applicable

pH: 6 – 8.5 (1% Solution)

Water Solubility: 120 g/l or more



SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Tends to smoulder. Treat as "Class A" fire. Product will burn when in contact with a flame. Self extinguishes when ignition source is removed.

Means of extinguishing: Water. Dry chemical. Carbon dioxide (CO₂)

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: 370°C as a dust

Hazardous combustion products: Carbon monoxide, carbon dioxide and smoke.

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Not applicable

Specific Hazards: Smoke can contain alkaline fumes. Can contain sufficient fines to cause a combustible dust explosion. Do not breathe smoke, gases or vapors generated

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable under recommended storage conditions. Hazardous polymerization does not occur.

Product incompatible with: None known.

Conditions of reactivity: Avoid dust formation.

Hazardous decomposition products: Thermal decomposition products: alkaline, Na₂O, Na₂CO₃



SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Avoid breathing dust. Use NIOSH/MSHA approved respiratory protection equipment when airborne exposures exceeds established guidelines. Consult the respirator manufacturer to determine appropriate type equipment for a given application. Observe respirator use limitations specified by NIOSH or the manufacturer. Chemical resistant gloves to prevent skin contact. Wear chemical goggles and have eye flushing equipment available. Protect eyes from exposure. Wear appropriate protective clothing.

Specific engineering controls: Ventilation: Provide natural or mechanical ventilation to control exposure levels below airborne exposure limits in this section. The use of local mechanical exhaust ventilation is preferred at sources of air contamination such as open process equipment.

Procedures for leak/spills: Wet material on walking surfaces will be extremely slippery. Avoid dust formation. In case of exposure to high levels of airborne dust, wear a personal respirator in compliance with national legislation. The use of water wash down is not recommended unless the spilled material is already wet. Use vacuum equipment designed specifically for combustible dust. Take precautionary measures against static discharges.

Waste disposal: Waster Disposal Method: Incineration of waste material in a permitted facility in accordance to local, state, provincial and federal regulations is the recommended disposal method. Landfilling in a licensed facility equipped with leachate collection is a suitable alternative. Dispose in accordance with local, provincial and federal regulations.

Handling procedures and equipment: Avoid dust formation. Provide appropriate exhaust ventilation in places where dust is formed. In case of insufficient ventilation, wear suitable respiratory equipment. Avoid conditions that generate airborne dust in handling, transfer and clean up. Product may form combustible dust-air mixtures. Keep away from heat, flame sparks and other ignition sources. Remove material from eyes, skin and clothing. Avoid emptying package in or near flammable vapors. Static charges may cause flash fire.

Storage requirements: Dry storage

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: November, 2009

Prepared by: Product Safety Committee

All the recommendations and suggestions herein concerning this product are based upon tests and data believed to be reliable, however it is the user's responsibility to determine the safety, toxicity and sustainability for their own use of the product described herein. Since the actual use by others is beyond our control, no guarantee, expressed or implied, is made by Q'Max Solutions Inc. as to the effects of such use, the results to be obtained, or the safety and toxicity of the product nor does Q'Max Solutions Inc. assume any liability arising out of use by others. Nor is the information herein to be considered as absolutely complete since additional information may be necessary or desirable when particular or exceptional conditions or circumstances exist or because of applicable laws or government regulations.