



MATERIAL SAFETY DATA SHEET

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HEC 10

SECTION I: IDENTIFICATION OF PRODUCT

Product Name: HEC 10
Chemical Family: Cellulose Ethers
WHMIS Classification: Not Controlled
Workplace Hazard: Treat as nuisance dust
CAS#: 9004-62-0

Product Use: Cellulosic viscosifier
TDG Classification: Not regulated
Packaging Group: Not applicable
PIN: Not applicable

SECTION II: HAZARDOUS INGREDIENTS

Ingredients	Percent (w/w)	CAS Number	LD ₅₀ (Rat/Oral)	LC ₅₀ (Species/Route)
Hydroxyethyl cellulose	>=86.0	9004-62-0	Not available	Not available
Sodium acetate	<=7.5	127-09-3	3500 mg/kg	Not available
Cellulose	<=1.5	9004-34-6	3160 mg/kg	Not available

SECTION III: TOXICOLOGICAL PROPERTIES

Route of entry: Skin Eye Contact Inhalation Ingestion

Effects of acute exposure: May cause slight irritation to the eyes. Solid or dust may cause irritation or corneal injury due to mechanical action. May result in gastrointestinal irritation or ulceration. May cause irritation of the upper respiratory tract.

Effects of chronic exposure: No effects expected

Exposure limits: ACGIH – TLV 10 mg/m³ (Cellulose)

Irritancy of product: Slight irritant to the eyes. Irritant to the upper respiratory tract. Gastrointestinal irritant.

Sensitization to product: Not available

Carcinogenicity: No ingredients considered as carcinogenic.

Reproductive toxicity: No ingredients considered to interfere with reproduction.

Teratogenicity: No ingredients considered as teratogenic or fetotoxic.

Mutagenicity: No ingredients considered as mutagenic.

Name of toxicological synergistic products: No information available



SECTION IV: FIRST AID MEASURES

Skin contact: Brush away excess material. Wash thoroughly with soap and water. If irritation develops or persists, seek medical attention.

Eye contact: Flush with gently flowing warm water for 5 minutes or until irritation ceases. If irritation persists, seek medical attention.

Inhalation: Remove to fresh air. Apply artificial respiration or seek medical attention if symptoms develop.

Ingestion: Do not induce vomiting unless directed to do so by medical personnel. Obtain medical attention. Never give anything by mouth if victim is unconscious, rapidly losing consciousness or convulsing.

SECTION V: PHYSICAL DATA

Physical state: Solid.

Appearance and odour: White powder; mild odour

Odour threshold: Not available

Specific gravity: 0.4 - 0.6

Vapor pressure (mmHG): Not applicable

Vapor density (Air=1): Not applicable

Evaporation rate: Not available

Boiling point (°C): Not applicable

Freeze/Melting point (°C): Not applicable

pH: 6 - 7

Co-efficient of water/oil distribution: Not applicable

Solubility in water: Completely miscible



SECTION VI: FIRE AND EXPLOSION DATA

Conditions of flammability: Avoid dispersion of dust in air to reduce potential for dust ignition and/or explosions. Dust is easily ignited avoid ignition sources.

Means of extinguishing: Use alcohol based or all-purpose foam for large fires. Use CO₂ or dry chemical medial for small fires.

Flash point: Not applicable

Upper flammable limit: Not applicable

Lower flammable limit: Not applicable

Auto-ignition temperature: >400°C

Hazardous combustion products: Oxides of carbon

Explosion data-sensitivity to mechanical impact: Not applicable

Explosion data-sensitivity to static discharge: Static ignition hazard can result from handling and use. Electrically bond and ground all containers and equipment before transfer or use of material.

SECTION VII: REACTIVITY DATA

Chemically unstable (conditions): Stable.

Product incompatible with: No incompatibilities listed.

Conditions of reactivity: Avoid temperatures above 200°C. Exposure to elevated temperatures can cause product to decompose. Avoid moisture; product is hygroscopic. Avoid contact with strong oxidizers.

Hazardous decomposition products: Oxides of carbon produced upon combustion.



SECTION VIII: PREVENTATIVE MEASURES

Personal protective equipment: Wear NIOSH/MESA approved dust mask or respirator with dust cartridges if dust is generated during use. Suggest plastic or rubber protective gloves and goggles or safety glasses with side-shields. Ensure emergency eye wash station and safety shower are available when handling chemicals

Specific engineering controls: General mechanical ventilation is normally adequate. Use local exhaust ventilation, process enclosure or other engineering controls to maintain level of airborne dust below TLV.

Procedures for leak/spills: Wear suitable protective equipment. Avoid creating dust clouds. Collect with vacuum if possible. Collect uncontaminated material for repackaging. Collect contaminated material in an approved container for disposal. Water solutions: Cover with absorbent. Sweep up, collect and dispose immediately

Waste disposal: Dispose in accordance with federal, provincial and local regulations. It is the responsibility of the end-user to determine if material meets the criteria of hazardous waste at the time of disposal. Unused and uncontaminated product may be disposed in a landfill; check with local operator. Dispose of, or recycle, empty packaging in accordance with local regulations.

Handling procedures and equipment: Keep away from heat, sparks, and flame. Keep container closed. Avoid contact with eyes. Wash thoroughly after handling. Avoid dispersion of dust in air to reduce potential for dust ignition/explosion. Handle in properly bonded and grounded, electrically conductive equipment. Handle and convey bulk material in inert nitrogen-blanketed atmospheres.

Storage requirements: Store in sealed containers in a cool, dry area away from oxidizers.

Special shipping information: Not applicable

SECTION IX: PREPARATION

Date updated: July, 2007

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.