

**Safety Data Sheet**

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 1: Identification**Product Name** Methocel® E4M Premium CR (Hypromellose USP)**Commercial Name** Not available.**Product Use** Not available**Restrictions On Use** Not available**Product Code** 30-1186**Company** PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760In case of emergency contact:
CHEMTREC (24hr) 1-800-424-9300**Section 2: Hazard(s) Identification****OSHA Haz Com:** Not available**CFR 1910.1200****Signal Word** NON-HAZARDOUS**Hazard Statement(s)****Pictogram(s) or Symbol(s)****Precautionary Statement(s):**

Prevention	Keep away from heat/sparks/open flames/hot surfaces. No smoking. Ground/bond container and receiving equipment. Use explosion-proof electrical/ventilating/lighting/equipment. Take precautionary measures against static discharge.
Response	Not available.
Storage	Not available.
Disposal	Not available.

Section 3: Composition/Information on Ingredients**Substance/Mixture** Mixture**Components** Methocel E4M (Hypromellose USP), Sodium chloride, Water**% By Weight** Methocel E4M (Hypromellose USP): 85-99% Sodium chloride: 0.5-5% Water:1-10%**CAS#** 9004-65-3**Molecular Weight** Not available.**Chemical Formula** Not available.**Synonym(s)** Cellulose Methyl Ether**Mixtures**

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Methocel® E4M (Hypromellose USP)	9004-65-3	85-99	Not available.	Not available
Sodium chloride	7647-14-5	0.5-5	Not available	Not available
Water	7732-18-5	1-10	Not available	Not available

Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Section 4: First-Aid Measures

Inhalation	Move person to fresh air; if effects occur, consult a physician.
Skin Contact	Wash skin with plenty of water.
Eye Contact	Flush eyes with plenty of water; remove contact lenses after the first 1-2 minutes then continue flushing for several minutes. Only mechanical effects expected. If effects occur, consult a physician, preferably an ophthalmologist.
Ingestion	No emergency medical treatment necessary.
Symptoms/Effects	
Acute	Not available
Delayed	Not available

Immediate Medical Attention

Notes to physician: No specific antidote. Treatment of exposure should be treated at the control of symptoms and the clinical condition of the patient.

Section 5: Fire-Fighting Measures**Suitable Extinguishing Media**

Water. Dry chemical fire extinguishers. Carbon dioxide fire extinguishers.

Unsuitable Extinguishing Media

Not available.

Products of Combustion

Carbon monoxide and carbon dioxide.

Firefighters Special Equipment and Precautions

Keep people away. Isolate fire and deny unnecessary entry. Soak thoroughly with water to cool and prevent re-ignition. Cool surroundings with water to localize fire zone. Hand held dry chemical or carbon dioxide extinguishers may be used for small fires. Dust explosion hazard may result from forceful application of fire extinguishing agents. Wear positive-pressure self-contained breathing apparatus (SCBA) and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

Section 6: Accidental Release Measures

Personal precautions, protective equipment and emergency procedures: Spilled material may cause a slipping hazard. Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection. Environmental precautions: Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. See Section 12, Ecological Information. Methods and materials for containment and cleaning up: Contain spilled material if possible. Sweep up. Use care to minimize generation of airborne dust. Do not use water for cleanup. Collect in suitable and properly labeled containers. See Section 13, Disposal Considerations, for additional information.

Section 7: Handling and Storage

Precautions for safe handling: Keep away from heat, sparks and flame. No smoking, open flames or sources of ignition in handling and storage area. Electrically ground and bond all equipment. Good housekeeping and controlling of dusts are necessary for safe handling of product. Pneumatic conveying and other mechanical handling operations can generate combustible dust. To reduce the potential for dust explosions, electrically bond and ground equipment and do not permit dust to accumulate. Dust can be ignited by static discharge. See Section 8, EXPOSURE CONTROLS AND PERSONAL PROTECTION. Conditions for safe storage: Store in a dry place. See Section 10 for more specific information. Storage stability Storage temperature: 5 - 35 °C (41 - 95 °F)

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Hydroxypropyl methyl cellulose. List: Dow IHG. Type: TWA Total dust. Value: 10 mg/m ³
Engineering Controls	Use local exhaust ventilation, or other engineering controls to maintain airborne levels below exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, general ventilation should be sufficient for most operations. Local exhaust ventilation may be necessary for some operations.

Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Personal Protection

Eye/face protection: Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles. Skin protection Hand protection: Chemical protective gloves should not be needed when handling this material. Consistent with general hygienic practice for any material, skin contact should be minimized. Other protection: No precautions other than clean body-covering clothing should be needed. Respiratory protection: Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, wear respiratory protection when adverse effects, such as respiratory irritation or discomfort have been experienced, or where indicated by your risk assessment process. For most conditions, no respiratory protection should be needed; however, in dusty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Particulate filter.

Section 9: Physical and Chemical Properties

Appearance	Solid. White to Off-White		
Odor	Odorless		
Odor Threshold	Not available		
Melting Point	Not applicable	pH	Not applicable
Freezing Point	Not applicable	Vapor Pressure	Not applicable.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available	Evaporation Rate	Not available
Flash Point	Not available.	Autoignition temperature	No test data available
Flammability	May form combustible dust c	Flammability or Explosive Limits:	
		Lower	No test data available
		Upper	No test data available
Solubility(ies)	Completely soluble in water.		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available
Chemical Stability	Stable under recommended storage conditions.
Hazardous Polymerization	Polymerization will not occur.
Conditions to Avoid	Avoid temperatures above 130 °C (266°F). Exposure to elevated temperatures can cause product to decompose. Avoid static discharge.
Incompatible Materials	Avoid contact with oxidizing materials. Avoid contact with strong acids and strong bases.
Hazardous Decomposition Products	Decomposition products depend upon temperature, air supply and the presence of other materials.

Section 11: Toxicological Information
RTECS FJ5959000

Acute Toxicity

For similar material(s): LD50 Ingestion: > 10000mg/kg [Rat] LC50: Not available. Repeated Dose Toxicity: Repeated ingestion of similar cellulose by humans has not resulted in known significant adverse effects. Chronic Toxicity and Carcinogenicity: Similar cellulose did not cause cancer in long-term animal studies. Developmental Toxicity: Similar cellulose did not cause birth defects or other toxic effects to the fetus in laboratory and animal studies. Reproductive Toxicity: In animal studies, a similar cellulose has been shown not to interfere with reproduction. Genetic Toxicology: Similar cellulose were negative in both in vitro and animal genetic toxicity studies.

Skin Corrosion/Irritation

Not available

Serious Eye Damage/Irritation

Solid or dust may cause irritation or corneal injury due to mechanical action.

Respiratory or Skin Sensitization

Not available

Germ Cell Mutagenicity

Not available

Carcinogenicity

Similar cellulose did not cause cancer in long-time animal studies

Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Reproductive Toxicity

In animal studies, a similar cellulosic has been shown not to interfere with reproduction

Routes of Entry

Ingestion. Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts.

Symptoms Related to Exposure

Not available

Potential Health Effects

Eye Contact: Solid or dust may cause irritation or corneal injury due to mechanical action. Skin Contact: Essentially nonirritating to skin, Skin Absorption: No adverse effects anticipated by skin absorption. Inhalation: No adverse effects are anticipated from single exposure to dust. Ingestion: Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts

Target Organ(s) Not available

Section 12: Ecological Information**Ecotoxicity**

Acute toxicity to fish Material is practically non-toxic to aquatic organisms on an acute basis (LC50/EC50/EL50/LL50 >100 mg/L in the most sensitive species tested).

Persistence and Degradability

Material is expected to biodegrade very slowly (in the environment). Fails to pass OECD/EEC tests for ready biodegradability.

Bioaccumulative Potential

No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).

Mobility in Soil

Not available

Other Adverse Effects

Not available

Section 13: Disposal Considerations**Waste Disposal**

DO NOT DUMP INTO ANY SEWERS, ON THE GROUND, OR INTO ANY BODY OF WATER. All disposal practices must be in compliance with all Federal, State/Provincial and local laws and regulations. Regulations may vary in different locations. Waste characterizations and compliance with applicable laws are the responsibility solely of the waste generator. AS YOUR SUPPLIER, WE HAVE NO CONTROL OVER THE MANAGEMENT PRACTICES OR MANUFACTURING PROCESSES OF PARTIES HANDLING OR USING THIS MATERIAL. THE INFORMATION PRESENTED HERE PERTAINS ONLY TO THE PRODUCT AS SHIPPED IN ITS INTENDED CONDITION AS DESCRIBED IN MSDS SECTION: Composition Information. FOR UNUSED & UNCONTAMINATED PRODUCT, the preferred options include sending to a licensed, permitted: Recycler. Reclaimer. Incinerator or other thermal destruction device. Landfill.

Disposal of Container

Not available

Other Considerations

Not available

Section 14: Transport Information**DOT Classification**

Not a DOT controlled material (United States). This material is not classified dangerous good according to international transportation regulations (ADR/RID-IMDG-ICAO/IATA).

Section 15: Regulatory Information**Regulations**

**Safety Data Sheet**

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OSHA Hazard Communication Standard This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200. Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Sections 311 and 312 This product is not a hazardous chemical under 29CFR 1910.1200, and therefore is not covered by Title III of SARA. Superfund Amendments and Reauthorization Act of 1986 Title III (Emergency Planning and Community Right-to-Know Act of 1986) Section 313 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. Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) Section 103 This material does not contain any components with a CERCLA RQ. Pennsylvania Worker and Community Right-To-Know Act: To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute. California Proposition 65 (Safe Drinking Water and Toxic Enforcement Act of 1986) This product contains no listed substances known to the State of California to cause cancer, birth defects or other reproductive harm, at levels which would require a warning under the statute. United States TSCA Inventory (TSCA) All components of this product are in compliance with the inventory listing requirements of the U.S. Toxic Substances Control Act (TSCA) Chemical Substance Inventory.

Other

Not available.

Section 16: Other Information

Not available.