

# Material Safety Data Sheet

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SAFETY DATA SHEET

12/29/2007

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## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

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YILLONG CHEMICAL GROUP LIMITED      Feilo Edifice Plaza, 6F/602, No 398,  
Yonghe Road, 200072,  
Zhabei District, Shanghai, China,

24 HOUR EMERGENCY RESPONSE NUMBER :      +86-13588052122  
For product information:      +86-21-65266643

Product Name:      CELOCELL EM - METYHL HYDROXY ETHYL CELLULOSE  
Issue Date: 12/29/2007

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## 2. COMPOSITION/INFORMATION ON INGREDIENTS

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Component	CAS #	Amount (%W/W )
Methyl Hydroxyethyl cellulose	9004-62-0	>= 85.5 %
Sodium acetate	127-09-3	<= 7.5%
Water	7732-18-5	>= 2 <= 5%
Cellulose	9004-34-6	<= 1.5%
Ethanedial	107-22-2	<= 0.5%

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## 3. HAZARDS IDENTIFICATION

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### EMERGENCY OVERVIEW

Appearance White

Physical State Powder

Odor Mild

Hazards of product

CAUTION! STATIC IGNITION HAZARD CAN RESULT FROM HANDLING AND USE.

DUST DISPERSED IN AIR MAY BE IGNITED AND BURN RAPIDLY. PLASTIC CONTAINER, IF PRESENT, MAY CAUSE STATIC IGNITION HAZARD. SLIPPERY WHEN WET.

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POTENTIAL HEALTH EFFECTS

Effects of Single Acute Overexposure

Inhalation

Dust may cause irritation of the respiratory tract, experienced as nasal discomfort and discharge.

Eye Contact

Dust may cause discomfort in the eye and slight excess redness of the conjunctiva.

Skin Contact

No evidence of harmful effects from available information.

Skin Absorption

No evidence of harmful effects from available information.

Swallowing

No evidence of harmful effects from available information.

Chronic, Prolonged or Repeated Overexposure

Effects of Repeated Overexposure

This product may contribute to nuisance dusts and possibly to respirable dusts. Avoid breathing dusts.

Other Effects of Overexposure

None currently known.

Medical Conditions Aggravated by Exposure

Inhalation of material may aggravate asthma and inflammatory or fibrotic pulmonary disease.

POTENTIAL ENVIRONMENTAL EFFECTS

See Section 12 for Ecological Information.

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4. FIRST-AID MEASURES

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INHALATION

Remove to fresh air.

EYE CONTACT

Immediately flush eyes with water and continue washing for several minutes. Remove contact lenses, if worn. Obtain medical attention if discomfort persists.

SKIN CONTACT

Wash skin with soap and water.

SWALLOWING

If a large quantity (several ounces) has been swallowed, and if patient is fully conscious, give two glasses of water. Induce vomiting. This should be done only by medical or experienced first-aid personnel. Obtain medical attention.

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NOTES TO PHYSICIAN

Toxicology studies have shown this or similar material to be of very low acute toxicity. There is no specific antidote. Treatment of overexposure should be directed at the control of symptoms and the clinical condition of the patient.

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5. FIRE FIGHTING MEASURES

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Extinguishing Media

Water fog or fine spray. Carbon dioxide.

Extinguishing Media to Avoid

DO NOT USE WATER JET. Dust explosion hazard may result from forceful application of fire extinguishing agents.

Hazardous Combustion Products

None known. Complete combustion will give carbon dioxide and water.

Protection of Firefighters

Wear positive-pressure self-contained breathing apparatus and protective fire fighting clothing (includes fire fighting helmet, coat, trousers, boots and gloves).

Specific Fire or Explosion Hazards

Dust of this product suspended in air is flammable and poses a definite explosion hazard if ignited.

This product may release residual isopropanol and accumulate flammable vapours in enclosed spaces.

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6. ACCIDENTAL RELEASE MEASURES

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Methods of Cleaning Up

Sweep up, recover if possible, or dispose of according to applicable regulations. Spills may cause very slippery surfaces when wet.

If the spill is a viscous solution it should be further diluted with water before disposal.

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7. HANDLING AND STORAGE

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Handling

Fine dust of this product can form explosive mixtures with air and poses a definite fire and explosion hazard at all times; keep away from ignition sources. May cause very slippery surfaces when wet.

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## Storage

Store in a well ventilated area. This product may release residual isopropanol and accumulate flammable vapours in enclosed spaces.

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**


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## EXPOSURE LIMITS

Component	Exposure Limits	Skin	Form
Methyl Hydroxyethyl cellulose	10 mg/m3 TWA8 ACGIH		Inhalable Particulate
Particulate matter containing no asbestos and crystalline silica <1%	3 mg/m3 TWA8 ACGIH		Respirable particulate
Particulate matter containing no asbestos and crystalline silica <1%	5 mg/m3 TWA8 OSHA		Respirable fraction
Cellulose	15 mg/m3 TWA8 OSHA		Total dust
	10 mg/m3 TWA8 ACGIH		
	5 mg/m3 TWA8 OSHA		Respirable fraction
	15 mg/m3 TWA8 OSHA		Total dust
Ethanedial	0.1 mg/m3 TWA8 AIHA WEEL		
	0.1 mg/m3 TWA8 ACGIH		Aerosol and Vapor Inhalable fraction

In the Exposure Limits Chart above, if there is no specific qualifier (i.e., Aerosol) listed in the Form Column for a particular limit, the listed limit includes all airborne forms of the substance that can be inhaled. A "Yes" in the Skin Column indicates a potential significant contribution to overall exposure by the cutaneous (skin) route, including mucous membranes and the eyes, either by contact with vapors or by direct skin contact with the substance. A "Blank" in the Skin Column indicates that exposure by the cutaneous (skin) route is not a potential significant contributor to overall exposure.

## PERSONAL PROTECTION

## Respiratory

Protection:

Use dust respirator if dusting conditions exist.

## Ventilation:

Special, local ventilation is recommended in areas where containers are opened and their contents are discharged or in any other areas where dusting conditions

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may develop.

Eye Protection:

Monogoggles.

Protective Gloves:

Polyvinyl chloride coated

Other Protective Equipment:

Eye Bath, Safety Shower

### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	White
pH:	No test data available.
Solubility in Water (by weight):	No test data available.
Odor:	Mild
Percent Volatiles:	~ 5.0 Wt%
Molecular Weight:	10000 - 1000000 g/mol
Boiling Point (760 mmHg):	No test data available.
Freezing Point:	No test data available.
Specific Gravity (H2O = 1):	Not applicable.
Vapor Pressure:	No test data available.
Vapor Density (air = 1):	No test data available.
Melting Point:	200 °C    392 °F    Decomposes above
Bulk Density:	0.4 - 0.6 g/cm3    25 - 37 lb/ft3

### 10. STABILITY AND REACTIVITY

Chemical Stability

Stable under normal handling and storage conditions, see Section 7, Handling and Storage.

Materials to Avoid

Oxidising agents.

### 11. TOXICOLOGICAL INFORMATION

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMANS    Pharmacokinetic and Material balance studies have shown that only minor amounts of Methyl Hydroxyethyl cellulose penetrate the skin under single sustained occluded conditions of cutaneous contact.

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12. ECOLOGICAL INFORMATION

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Degradation

Despite the very slow biodegradation rate the product should not present an environmental hazard in the water/soil compartment.

Aquatic Toxicity

Modified celluloses are generally non-harmful to aquatic organisms (LC50/EC50/IC50 greater than 100 mg/L).

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13. DISPOSAL CONSIDERATIONS

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Any disposal practice must be in compliance with all local and national laws and regulations. Customers are advised to check their local legislation governing the disposal of waste materials.

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14. TRANSPORT INFORMATION

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Product is not classified for any mode of transportation.

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15. REGULATORY INFORMATION

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EC Classification and User Label Information

This product does not require classification according to the criteria of the Commission of the European Communities.

Remarks: Safety data sheet available for professional users on request.

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16. OTHER INFORMATION

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Additional product safety information on this product may be obtained by calling your Yil-Long Chemical Customer Service contact. Ask for the brochure:

CELLOCEL MHEC Storage and Handling(report)

CELLOCEL MHEC in Flexible Intermediate Bulk Container(report)

HMIS ratings for this product are: H - 1 F - 1 R - 0

NFPA ratings for this product are: H - 1 F - 1 R - 0

These ratings are part of specific hazard communications program(s) and should be disregarded where individuals are not trained in the use of these hazard rating systems. You should be familiar with the hazard communication applicable to your workplace.