

YANGZHOU WEIKEM CO.,LTD

MATERIAL SAFETY DATA SHEET

Product Name: WEKCELO^(R) HYDROXYETHYL
CELLULOSE
WEKCELO^(R) HEC

Effective Date: 01/01/2012

Expiry date : 01/01/2020

WeiKem Chemical (hereinafter, and for purposes of this MSDS only, refers to the WeiKem Chemical Co.,Ltd) encourages and expects you to read and understand the entire MSDS, as there is important information throughout the document. WeiKem Chemical Co.,Ltd expects you to follow the precautions identified in this document unless your use conditions would necessitate other appropriate methods or actions.

1.CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

1.1 IDENTIFICATION

Product Name

WEKCELO^(R) HYDROXYETHYL CELLULOSE WeKcelo HEC

1.2 COMPANY IDENTIFICATION

Supplier

WeiKem Chemical Co., LTD Chemical,China.
No. 35 Dingxing Road, Yangzhou Food Industry Zone, Yangzhou, JiangSu ,China.

1.3 EMERGENCY TELEPHONE NUMBER: 86-514-85819777

2.COMPOSITION INFORMATION

Component	CAS #	%W/W	Hazard
Hydroxyethyl cellulose	9004-62-0	>= 82.4%	WHMIS: not hazardous
Water	7732-18-5	<=5%	WHMIS: not hazardous
Cellulose	9004-34-6	<=1%	WHMIS: not hazardous

Classification according to Regulation (EC) No. 1272/2008 [CLP] : not hazardous

3. HAZARDS IDENTIFICATION

3.1 EMERGENCY OVERVIEW

Appearance White

Physical State Powder

Odor Mild

3.2 POTENTIAL HEALTH EFFECTS Potential Effects of a Single Acute Exposure

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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.

4. FIRST AID MEASURES

4.1 INHALATION

Remove to fresh air.

4.2 EYE CONTACT

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

4.3 SKIN CONTACT

Wash skin with plenty of water.

4.4 SWALLOWING

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

4.5 NOTES TO PHYSICIAN

Toxicology studies have shown this or similar material to be of very low acute toxicity. There is no specific antidote.

5. FIRE FIGHTING MEASURES

5.1 FLAMMABLE PROPERTIES - REFER TO SECTION 9, PHYSICAL AND CHEMICAL PROPERTIES

5.2 EXTINGUISHING MEDIA

Apply water spray (fog), alcohol-type or all-purpose-type foams by manufacturer's recommended techniques for large fires. Use CO₂ or dry chemical media for small fires.

5.3 FIRE FIGHTING PROCEDURES

Do not direct a solid stream of water or foam into burning molten material; this may cause spattering and spread the fire.

5.4 SPECIAL PROTECTIVE EQUIPMENT FOR FIREFIGHTERS

Use self-contained breathing apparatus and protective clothing.

6. ACCIDENTAL RELEASE MEASURES

Steps to be Taken if Material is Released or Spilled:

FOR SPILL: Cover with absorbent, sweep up, collect and dispose immediately. Will absorb moisture and become slippery.

Personal Precautions: Wear suitable protective equipment. See Section 8.2 - Personal Protection.

7. HANDLING AND STORAGE

7.1 HANDLING

General Handling

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Electrically bond and ground all containers, personnel and equipment before transfer or use of material. Avoid heat, sparks and flame under dust conditions. Clean up spills. Keep container closed. Store and use with adequate ventilation. Wash thoroughly after handling.

7.2 STORAGE

Store in accordance with good industrial practices. Storage information may be obtained from product-specific Storage, or by calling WeiKem Chemical Co.,Ltd's Customer Information 86-514-87783286 (China).

8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

8.1 EXPOSURE LIMITS

Component	Exposure Limits	Skin. Form
Sodium Chloride	10 mg/m ³ TWA8	WeiKem Chemical Co.,Ltd
Methyl cellulose	10 mg/m ³ TWA8	ACGIH

Consult local authorities for recommended exposure limits. 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 ludes all airborne forms of the substance that can be inhaled.

8.2 PERSONAL PROTECTION

Respiratory Protection: Atmospheric levels should be maintained below the exposure guideline. When respiratory protection is required, use an approved air-purifying or positive-pressure supplied-air respirator depending on the potential airborne concentration.

Ventilation: Provide general and/or local exhaust ventilation to control airborne levels below the exposure guidelines. Use only with adequate ventilation.

Eye Protection: Monogoggles.

Protective Gloves: Polyvinyl chloride coated

Other Protective Equipment: Eye Bath, Safety Shower

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State: Powder

Appearance: White

Odor: Mild

Flash Point - Closed Cup: No test data available.

Flammable Limits In Air: Lower No test data available. Upper No test data available.

ignition Temperature: 400 °C / 752 °F ASTM

Vapor Pressure: No test data available.

Boiling Point (760 mmHg): No test data available.

Vapor Density (air = 1): No test data available.

Specific Gravity (H₂O = 1): Not applicable.

Bulk Density: 0.4 - 0.6 g/cm³ 25 - 37 lb/ft³

Freezing Point: No test data available.

Melting Point: > 200 °C > 392 °F Decomposes

Solubility in Water (by weight): No test data available.

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pH: No test data available.

Molecular Weight: > 60000 g/mol

Percent Volatiles: ~ 5.0 Wt%

10. STABILITY AND REACTIVITY

10.1 STABILITY/INSTABILITY: Stable.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

ACUTE TOXICITY Peroral : Rat = 12.5 g/kg; 20% suspension in corn oil.

Mortality: 0/5

Major Signs: sluggishness

Gross Pathology: None.

Percutaneous : Rabbit = 4 g/kg; test material moistened with water; 24 h occluded.

Mortality: 0/5 **Major Signs:** None.

Gross Pathology: None.

INHALATION Sodium Chloride ; Rat; 1 h; LC50 = > 30 g/m³

Toxicology for the Component

IRRITATION

Skin.: Rabbit; 24 h uncovered; 2% suspension in water **Results:** no irritation

Eye: Rabbit; 0.5 ml; 2% suspension in water **Results:** no corneal injury

Eye: Rabbit; 40 mg; powder **Results:** no corneal injury

SIGNIFICANT DATA WITH POSSIBLE RELEVANCE TO HUMANS

Pharmacokinetic and material balance studies have shown that only minor amounts of METHYL HYDROXYPROPYL CELLULOSE penetrate the skin under single sustained occluded conditions of cutaneous contact.

12. ECOLOGICAL INFORMATION

12.1 ENVIRONMENTAL FATE

Information may be available, call WeiKem Chemical Co.,Ltd.

12.2 ECOTOXICITY

Information may be available, call WeiKem Chemical Co.,Ltd.

12.3 FURTHER INFORMATION

None.

13. DISPOSAL CONSIDERATIONS

13.1 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.

14. TRANSPORT INFORMATION

14.1 TDG - CHINA

Material safety data sheet

SMALL CONTAINER Proper Shipping Name : NOT REGULATED

LARGE CONTAINER Proper Shipping Name : NOT REGULATED

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

14.2 IMO

NON-HAZARDOUS FOR SEA TRANSPORT : NON-HAZARDOUS FOR SEA TRANSPORT.

14.3

Land transport (ADR/RID)

Other applicable information(land transport)

No hazardous material as defined by the transport regulations.

Inland waterways transport(AND)

Other applicable information(inland waterways transport)

No hazardous material as defined by the transport regulations.

Marine transport(IMDG)

Other applicable information(marine transport)

No hazardous material as defined by the transport regulations.

Air transport(ICA0)

Other applicable information(air transport)

No hazardous material as defined by the transport regulations.

15. REGULATORY INFORMATION

Labeling in accordance with EC-Directives

Hazard warning labeling not compulsory

16. OTHER INFORMATION

16.1 ADDITIONAL INFORMATION

ADDITIONAL INFORMATION: Additional product safety information on this product may be obtained by calling WeiKem Chemical Co.,Ltd's Customer Information 0086-514-87783286 (China). Ask for the brochure:

WEKCELO HEC Storage

16.2 RECOMMENDED USES AND RESTRICTIONS

Thickener, binder, stabilizer, film former, protective colloid

FOR INDUSTRY USE ONLY

Safety Notice: Read and understand the Material Safety Data Sheet (MSDS) before handling this product. All MSDS sheet is available for download from

Material safety data sheet

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PACKAGING AND STORAGE:

WeKcelo® is supplied in multi-ply paper bags with polyethylene intermediate layer, containing 25 kgs; shrink palletizing is available by ordering a minimum quantity of 750 kgs.

WeKcelo® has a long shelf life (minimum 12 months) stored in dry, normal temperature condition and no direct sun shine.

For more exact information, please

Date of Issue: 15th Dec,

2011

NOTICE: WeiKem Chemical Co.,Ltd urges each customer or recipient of this MSDS to study it carefully and consult appropriate expertise, as necessary or appropriate, to become aware of and understand the data contained in this MSDS and any hazards associated with the product. The information herein is provided in good faith and believed to be accurate as of the effective date shown above. However, no warranty, express or implied, is given., Regulatory requirements are subject to change and may differ between various locations. It is the buyer's/user's responsibility to ensure that its activities comply with all federal, state, provincial or local laws.

The information presented here pertains only to the product as shipped. Se conditions for use of the product are not under the control of WeiKem Chemical Co.,Ltd, it is the buyer's/user's duty to determine the conditions necessary for the safe use of this product.,