

Material Safety Data Sheet

Shanghai Dofine Chemical Co.Ltd

Issued Date:01/03/2014

Shanghai Dofine Chemical Co.,Ltd encourages and expects you to read and understand the entire (M)SDS, as there is important information throughout the document. We expect you to follow the precautions identified in this documents unless your use conditions would necessitate other appropriate methods or actions.

1, Product And Company Identification

Product Name: Hydroxy Ethyl Cellulose

Company Identification

Shanghai Dofine Chemical Co.,Ltd
10# 1500 Sifeng Road, Songjiang District,
Shanghai,201601 China

Customer Information Number: 86-182-172 633 323

Technical Inquiry email: info@chemixsc.com

2 ,Composition Information

Chemical composition	CAS No.	Weight (%)
Hydroxy Ethyl Cellulose	9004-62-0	>= 82.4
Sodium Acetate	127-09-3	<=9.6
Water	7732-18-5	<=5
Cellulose	9004-34-6	<=1

3, Hazards Identification

Emergency Overview

Color: White to off-white

Physical State: Powder

Odor: Odorless

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.

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

Inhalation: No adverse effects are anticipated from single exposure to dust.

4, First-aid Measures

Eye Contact: Flush eyes with plenty of water; Remove contact lenses after first 1-2minutes then continue flushing for several minutes. Only mechanical effects expected. If effects occur, consult a physician, preferably an ophthalmologist.

Skin Contact: Wash skin with plenty of water.

Ingestion: No emergency medical treatment necessary.

Inhalation: Move person to fresh air; If effects occur, consult a physician.

5, Fire Fighting Measures

Extinguishing Media: Water. Dry chemical fire extinguishers. Carbon dioxide (CO₂) fire extinguishers .

Fire Fighting Procedures: 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.

Fire Protective Equipment for Firefighters: 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.

Unusual Fire and Explosion Hazards: Do not permit dust to accumulate. When suspended in air dust can pose an explosion hazard. Minimize ignition sources. If dust layers are exposed to elevate temperatures, spontaneous combustion may occur. 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.

Hazardous Combustion Products: During a fire, smoke may contain the original in addition to combustion products of varying composition which maybe toxic and or irritating. Combustion products may include and are not limited to Carbon monoxide. Carbon dioxide.

6, Accidental Release Measures

Steps to be Taken if Material is Released or Spilled: Sweep up. Use care to minimize generation of airborne dust. Do not use water for cleanup. Collect in suitable and properly labeled containers. See Section13,Disposal Considerations, for additional information.

Personal Precautions: Material becomes slippery when wet. 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.

7, Handling and Storage

Handling

General 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. See Section 8, Exposure Controls and Personal Protection.

Storage

Store in a dry place. See Section 10 for more specific information or get the specific

storage instruction by calling Shanghai Dofine Chemical Co.,ltd.

8, Exposure Controls and Personal Protection

Control Parameters

Occupational exposure limit values: There are no currently occupational exposure limit values established for the substance.

Engineering Controls

Ventilation: 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.

Personal Protection

Eye/Face Protection: Use safety glasses. If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.

Skin Protection: No precautions other than clean body-covering clothing should be needed.

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.

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. In dusty or misty atmospheres, use an approved particulate respirator. The following should be effective types of air-purifying respirators: Particulate filter.

Ingestion: Use good personal hygiene. Do not consume or store food in the work area. Wash hands before smoking or eating.

9, Physical and Chemical Properties

Physical State	Powder
Color	White to off-white
Odor	Odorless
Flash Point-Closed Cup	No test data available
Flammable Limits In Air	Lower: No test available Upper: No test available
Auto-ignition Temperature	400°C
Vapor Pressure	Not applicable
Boiling Point(760 mmHg)	Not applicable
Vapor Density(air=1)	Not applicable
Specific Gravity(H₂O=1)	No test data available
Freezing Point	Not applicable
Melting Point	>200°C Decomposes
Solubility in Water(by weight)	Completely soluble in water
pH:	7 - 10

Kinematic Viscosity	Not applicable
Bulk Density	0.4-0.6 g/cm ³

10, Stability and Reactivity

Stability & Instability: Stable under recommended storage conditions. See Storage, Section 7.

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; 24h occluded.
Mortality	0/5
Major Signs	None
Gross Pathology	None
Inhalation Sodium Chloride	Rat; 1h; LC50=> 30 g/m ³

Toxicology for the component

Irritation

Skin	Rabbit;24h uncovered; 2% suspension in water Results: no irritation
Eye	Rabbit;0.5ml;2% suspension in water Results: no corneal injury
Eye	Rabbit; 40mg;powder Results: no corneal injury

12, Ecological Information

Environmental Fate

Information can be available, call Shanghai Dofine Chemical Co.,ltd

Eco-toxicity

Information can be available, call Shanghai Dofine Chemical Co.,ltd

Further information

None

13, Disposal Considerations

Do not dump into any sewers, on the ground, or into any body of water. All disposal practices must be compliance with all local laws and regulations.

14 ,Transport Information

Land transport(ADR/RID/GGVSE) not regulated as a hazardous material or dangerous goods for transportation

Sea transport(IMDG-Code/GGVSee) not regulated as a hazardous material or dangerous goods for transportation

Air transport(ICAOTI/IATA-DGR) not regulated as a hazardous material or dangerous goods for transportation

15 ,Regulatory Information

Labeling in accordance with EC-Directives

Hazard warning labeling not compulsory.

16, Additional Information

Recommended application

Thickener, binder, stabilizer, film former, protective colloid

For industry use only

Revision Information:

Date of the previous revision: not applicable. **Date of this revision:** 01/03/2014

Revision summary: The first new MSDS

Declare

Shanghai Dofine Chemical Company 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 buyers' or users' responsibility to ensure that his activities comply with the local laws. The information presented here pertains only to the product as shipped. Since conditions for use of the product are not under the control of the manufacturer, it is the buyers' or users' duty to determine the conditions necessary for the safe use of this product. Due to the proliferation of sources for information such as manufacturers-specific MSDS, we are not and cannot be responsible for MSDS obtained from any source other than ourselves. If you have obtained an MSDS from another source or if you are not sure that the MSDS you have is current, please contact us for the most current version.
