

## Hydroxypropyl Methylcellulose

Safety Data Sheet according to Federal Register / Vol. 77, No. 58 /  
March 26, 2012 / Rules and Regulation

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### 1 PRODUCT & COMPANY IDENTIFICATION

**Product Name:** Hydroxypropyl Methylcellulose Not available  
**Synonyms:** available  
**INCI Name:** Hydroxypropyl methylcellulose

**Distributor:** XI'AN AOGU BIOTECH CO.,LTD  
**Address:** Room 606,Block B3,Jinye Times,No.32,East Section of Jinye Road,Yanta District,Xi'an Shaanxi 710065 China  
**Phone / Fax:** 0086-29-89121514  
0086-18091843361  
**Web:** www.aogubio.com

**CAS Number:** 9004-65-3

**Formula:** Not available  
**Product Form:** Solid (powder)  
**Product Use:** Cosmetic use

**Emergency Telephone Number: 0086-1809184336**

### 2 HAZARDS IDENTIFICATION

**GHS Classification:** Skin Sensitization - Category 1  
**GHS Signal Word:** **WARNING**

**GHS Hazard Pictograms:**



**GHS Hazard Statements:**

May form combustible dust concentrations in air.  
May cause an allergic skin reaction.

**GHS Precautionary Statements:**

Avoid breathing dust/fume/gas/mist/vapors/spray.  
Contaminated work clothing should not be allowed out of the workplace.  
Wear protective gloves.  
IF ON SKIN: Wash with plenty of soap and water.  
If skin irritation of rash occurs: Get medical advice/attention.  
Wash contaminated clothing before reuse.  
Dispose of contents/container to an approved waste disposal plant.

**Potential Health Hazards:**

Eyes: May be irritant.  
Inhalation: No data available.  
Skin: Essentially non-irritating to skin.  
Ingestion: No data available.

**NFPA Ratings (704):**

Health	N/A	N/A
Flammability	N/A	N/A
Reactivity	N/A	N/A
Specific Hazard	N/A	

### 3 COMPOSITION/INFORMATION ON INGREDIENTS

<u>Component</u>	<u>CAS No.</u>	<u>Weight %</u>	<u>Molecular Weight</u>
Hydroxypropyl Methylcellulose	9004-65-3	≥85 - <95%	N/A
Sodium Chloride	7647-14-5	≤5.0%	58.44
Ethanedial	107-22-2	<0.9%	58.04

### 4 FIRST AID MEASURES

**Eyes:** 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.

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

**Skin:** Remove material from skin immediately by washing with soap and plenty of water. Remove contaminated clothing and shoes while washing. Seek medical attention if irritation persists. Wash clothing before reuse. Discard items which cannot be decontaminated, including leather articles such as shoes, belts and watchbands.

**Ingestion:** Do Not Induce Vomiting! Never give anything by mouth to an unconscious person. Seek medical attention if necessary.

## 5 FIRE-FIGHTING MEASURES

**Suitable (and unsuitable) extinguishing media:**  
**Special protective equipment & precautions for firefighters:**

May be combustible at high temperature. Use appropriate media (water, dry chemical fire extinguisher, carbon dioxide fire extinguishers) for adjacent fire. Do not use direct water jet. 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 firefighting clothing (includes firefighting helmet, coat, trousers, boots, and gloves). If protective equipment is not available or not used, fight fire from a protected location or safe distance.

**Flash Points:**  
**Specific hazards arising from the chemical:**

No data available  
 During a fire, smoke may contain the original material in addition to combustion products of varying composition which may be toxic and/or irritating. Combustion products may include and are not limited to: Carbon monoxide. Carbon dioxide. 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 elevated 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. See also Stability and Reactivity section.

## 6 ACCIDENTAL RELEASE MEASURES

**Personal precautions, protective equipment & emergency procedures:**

Isolate area. Keep unnecessary and unprotected personnel from entering the area. Spilled material may cause a slipping hazard. Use appropriate safety equipment. Do not try to clean up the leak without proper protective equipment. See section 8 for recommendations on the use of personal protective equipment.

**Environmental precautions:**

Prevent from entering into soil, ditches, sewers, waterways and/or groundwater. Notify environmental authorities in case of large leaks.

**Methods and material 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.

## 7 HANDLING & 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 for recommendations on the use of personal protective equipment. Keep container closed when not in use.

**Conditions for safe storage, incl. any incompatibilities:**

Keep in a dry place. Store indoors. Store in a closed container. Store away from sources of heat or ignition. See Section 10 for more specific information.

## 8 EXPOSURE CONTROLS / PERSONAL PROTECTION

<u>Component</u>	<u>Exposure Limits</u>	<u>Basis</u>	<u>Entity</u>
Hydroxypropyl Methylcellulose	10mg/m <sup>3</sup>	TWA (total dust)	Dow IHG
Ethanedial	0.1mg/m <sup>3</sup>	TWA (inhalable fraction and vapor)	ACGIH
	0.1mg/m <sup>3</sup>	TWA (aerosol)	US WEEL
	Skin Sensitizer	TWA	ACGIH
	Skin Sensitizer	TWA	US WEEL

TWA: Time Weighted Average over 8 hours of work.  
 TLV: Threshold Limit Value over 8 hours of work.  
 REL: Recommended Exposure Limit  
 PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit during x minutes.  
 IDLH: Immediately Dangerous to Life or Health  
 WEEL: Workplace Environmental Exposure Levels  
 CEIL: Ceiling

**Personal Protection:**

- Eyes:** Use safety glasses (with side shields). If there is a potential for exposure to particles which could cause eye discomfort, wear chemical goggles.
- Inhalation:** 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.
- Body:** Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Neoprene. Nitrile/butadiene rubber. Polyvinyl chloride. NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier. Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.
- Other:** 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. Use good personal hygiene practices. Provide eyewash stations, quick-drench showers and washing facilities accessible to areas of use and handling.

## 9 PHYSICAL AND CHEMICAL PROPERTIES

<b>Appearance:</b>	Powder	<b>Vapor Pressure:</b>	No data available
<b>Odor:</b>	Mild	<b>Vapor Density:</b>	No data available
<b>Odor Threshold:</b>	No data available	<b>Evaporation Rate:</b>	N/A for solids
<b>Color:</b>	White to off-white	<b>Flammability:</b>	May form explosive dust concentrations in air
<b>Molecular Weight:</b>	No data available	<b>Upper/lower Explosive Limit:</b>	N/A for solids
<b>pH (pH Electrode Aqueous Solution):</b>	5-8	<b>Flash Point</b>	>250 °C
<b>Boiling Point:</b>	N/A for solids	<b>Specific Gravity:</b>	No data available
<b>Melting Point:</b>	No data available	<b>Solubility in Water:</b>	No data available
<b>Relative Density (volume displacement):</b>	1.3	<b>Auto-Ignition Temperature:</b>	170 °C (338 °F)
<b>Partition Coefficient: n-octanol/water:</b>	No data available	<b>Decomposition Temperature:</b>	No data available
<b>Kinematic Viscosity:</b>	Solid	<b>Explosive Properties:</b>	Not impact sensitive.
<b>Oxidizing Properties:</b>	No	<b>Freezing Point:</b>	Solid

## 10 STABILITY AND REACTIVITY

<b>Reactivity:</b>	No data available
<b>Chemical Stability:</b>	Stable under recommended storage conditions.
<b>Hazardous Polymerization:</b>	Polymerization will not occur.
<b>Conditions to Avoid:</b>	Avoid temperatures above 130 °C. Exposure to elevated temperatures can cause product to decompose. Avoid static discharge.
<b>Incompatible Materials:</b>	Avoid contact with oxidizing materials. Avoid contact with: Strong acids. Strong bases.
<b>Hazardous Decomposition Products:</b>	Decomposition products depend upon temperature, air supply and the presence of other materials.

## 11 TOXICOLOGICAL INFORMATION

<b>Acute Toxicity:</b>	No data available
<b>Skin:</b>	Prolonged skin contact is unlikely to result in absorption of harmful amounts. The dermal LD50 has not been determined. For the major component(s):

<b>Eyes:</b>	LD50: >5,000 mg/kg Solid or dust may cause irritation or corneal injury due to mechanical action.
<b>Respiratory:</b>	No adverse effects are anticipated from single exposure to dust. For respiratory irritation and narcotic effects: No relevant data found. The LC50 has not been determined.
<b>Ingestion:</b>	Very low toxicity if swallowed. Harmful effects not anticipated from swallowing small amounts. Single dose oral LD50 has not been determined. For the major component(s): LD50: >5,000 mg/kg
<b>Carcinogenicity:</b>	Similar cellulose did not cause cancer in long-term studies.
<b>Teratogenicity:</b>	Similar cellulose did not cause birth defects or other toxic effects to the fetus in laboratory studies.
<b>Germ Cell Mutagenicity:</b>	Similar cellulose were negative in both in vitro and genetic toxicity studies.
<b>Embryotoxicity:</b>	No data available
<b>Specific Target Organ Toxicity:</b>	Evaluation of available data suggests that this material is not an STOT (single exposure) toxicant.
<b>Reproductive Toxicity:</b>	Similar cellulose has been shown not to interfere with reproduction
<b>Respiratory/Skin Sensitization:</b>	No data available
<b>Corrosivity:</b>	Essentially non-irritating to skin.
<b>Sensitization:</b>	Skin contact may cause an allergic skin reaction.
<b>Irritation:</b>	No data available
<b>Repeated Dose Toxicity:</b>	Repeated ingestion of similar cellulose by humans has not resulted in known significant adverse effects.

## 12 ECOLOGICAL INFORMATION

<b>Ecotoxicity</b>	
<b>Aquatic Vertebrate:</b>	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).
<b>Aquatic Invertebrate:</b>	No data available
<b>Terrestrial:</b>	No data available
<b>Persistence and Degradability:</b>	For this family of materials: Material is expected to biodegrade very slowly (in the environment).
<b>Bioaccumulative Potential:</b>	No bioconcentration is expected because of the relatively high molecular weight (MW greater than 1000).
<b>Mobility in Soil:</b>	No data available
<b>PBT and vPvB Assessment:</b>	No data available
<b>Other Adverse Effects:</b>	No data available

## 13 DISPOSAL CONSIDERATIONS

<b>Waste Residues:</b>	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.
<b>Product Containers:</b>	Users should review their operations in terms of the applicable federal/national or local regulations and consult with appropriate regulatory agencies, if necessary, before disposing of waste product container.

The information in section 13 is for the product as shipped. Use and/or alterations to the product may change the characteristics of the material and alter the waste classification and proper disposal methods

## 14 TRANSPORT INFORMATION

<b>DOT (Dept. of Transportation, USA):</b>	Not regulated for transport
<b>TDG (Transportation of Dangerous Goods, Canada):</b>	No data available
<b>IMDG (International Maritime Dangerous Goods):</b>	Not regulated for transport

<b>IATA (International Air Transport Association):</b>	Not regulated for transport
<b>ICAO (International Civil Aviation Organization):</b>	Not regulated for transport
<b>Transport in bulk according to Annex I or II of MARPOL 73/78 and the IBC or IGC Code:</b>	Consult IMO regulations before transporting ocean bulk.

## 15 REGULATORY INFORMATION

<b>OSHA:</b>	This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200
<b>TSCA Inventory:</b>	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.
<b>DSCL (EEC):</b>	This product is not classified according to the EU regulations. Not applicable.
<b>WHMIS (Canada):</b>	Not controlled under WHMIS (Canada)
<b>DSL (Canada):</b>	No data available
<b>EU EINECS/ELINCS/NLP:</b>	No data available
<b>China IECSC:</b>	No data available
<b>China IECIC (06.30.2014):</b>	No data available
<b>Australia AICS:</b>	No data available
<b>Japan ENCS:</b>	No data available
<b>Philippines PICCS:</b>	No data available
<b>Korea KECI:</b>	No data available
<b>New Zealand NZIoC:</b>	No data available
<b>SARA Sections 311 &amp; 312:</b>	Combustible dust Respiratory or skin sensitization.
<b>SARA Section 313:</b>	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.
<b>CERCLA Section 103:</b>	This material does not contain any components with a CERCLARQ.
<b>Pennsylvania RTK:</b>	To the best of our knowledge, this product does not contain chemicals at levels which require reporting under this statute.
<b>California Prop. 65:</b>	This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.

## 16 OTHER INFORMATION

<b>Revision Date:</b>	13-Sep-2021
<b>Compliance:</b>	This document has been prepared in accordance with the SDS requirements of the OSHA Hazard Communication Standard 29 CFR 1910.1200
<b>Disclaimer:</b>	This information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any other process. Such information is to be the best of the company's knowledge and believed accurate and reliable as of the date indicated. However, no representation, warranty or guarantee of any kind, express or implied, is made as to its accuracy, reliability or completeness and we assume no responsibility for any loss, damage or expense, direct or consequential, arising out of use. It is the user's responsibility to satisfy himself as to the suitability & completeness of such information for his own particular use.