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Material Safety Data Sheet

Hydroxyethyl Cellulose

HEC HS300

1, PRODUCT IDENTIFICATION

PRODUCT Name: HydroxyEthyl Cellulose HEC HS300

Synonyms: HEC,Hydroxy ethyl Cellulose,Cellulose ether

CAS NO: 9004-62-0

2, COMPASITION/INFORMATION ON INGREDIENTS

CAS#	Chemical Name	Percent	EINECS/ELINCS
9004-62-0	HydroxyEthyl Cellulose	ca. 100	unlisted

This product is considered hazardous according to the OSHA hazard communication Standard 29CFR1910.1200 due to
flammable dust potential.

If this product is used in a manner that could generate particulates(dust),refer to MSDS Section 7,Handling and storage, and
section 8, Recommended Exposure Limits and Personal Protective Equipment.

3,HAZARDS IDENTIFICATION

Appearance: off-white. Caution! The toxicological properties of this material have not been fully investigated. This is expected to
be a low hazard for usual industrial handling.

Target Organs: None.

Potential Health Effects

Eye: Low hazard for normal industrial handling.

Skin: Low hazard for usual industrial handling.

Ingestion: Low hazard for usual industrial handling. The toxicological properties of this substance have not been fully investigated.

Inhalation: Low hazard for usual industrial handling. The toxicological properties of this substance have not been fully
investigated.

Special Hazard Precautions: ACUTE ESSENTIALLY
NON-HAZARDOUS.

Chronic: No information found.

4, FIRST AID MEASURES

Eyes: Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. If irritation develops,
get medical aid.

Skin: Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get
medical aid if irritation develops or persists.
Ingestion: If victim is conscious and alert, give 2-4 cupfuls of milk or water. Get medical aid.
Inhalation: Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give
oxygen. Get medical aid if cough or other symptoms appear.
Material Safety Data Sheet—Hydroxy ethyl cellulose
Notes to Physician: Treat symptomatically and supportively.
Antidote: No specific antidote exists.

5, FIRE FIGHTING MEASURES

General Information: As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved
or equivalent), and full protective gear. Dusts at sufficient concentrations can form explosive mixtures with air. Combustion
generates toxic fumes.
Extinguishing Media: For small fires, use water spray, dry chemical, carbon dioxide or chemical foam.

6, ACCIDENTAL RELEASE MEASURES

General Information: Use proper personal protective equipment as indicated in Section 8.
Spills/Leaks: Sweep up, then place into a suitable container for disposal. Avoid generating dusty conditions.

7, HANDLING & STORAGE

Handling: Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation.
Minimize dust generation and accumulation. Avoid contact with eyes, skin, and clothing. Avoid ingestion and inhalation.
Storage: Store in a cool, dry, well-ventilated area away from incompatible substances.

8,EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering Controls: Use adequate ventilation to keep airborne concentrations low.
Exposure Limits PATICULATE: If used under conditions that generate particulates,the ACGIH TLV-TWA of 3 mg/m3 respirable
fraction(10 mg/m3 total)should be observed.
OSHA Vacated PELs: No OSHA Vacated PELs are listed for this chemical.
Personal Protective Equipment
Eyes: Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection
regulations in 29 CFR 1910.133 or European Standard EN166.
Skin: Wear appropriate protective gloves to prevent skin exposure.
Clothing: Wear appropriate protective clothing to minimize contact with skin.
Respirators: Follow the OSHA respirator regulations found in 29CFR 1910.134 or European Standard EN 149. Always use a

NIOSH or European Standard EN 149 approved respirator when necessary.

9, PHYSICAL & CHEMICAL PROPERTIES

PHYSICAL STATE: powder
COLOR: white or off white
ODOR: odorless
SPECIFIC GRAVITY 0.25
PERCENT VOLATILE negotiable at 20 c
SOLUBILITY IN WATER Limited by viscosity
PH VALUE 5.0 – 7.0 (2% Solution)

10, TABILITY & REACTIVITY

Chemical Stability: Stable under normal temperatures and pressures.
Conditions to Avoid: High temperatures.
Incompatibilities with Other Materials: Strong oxidizing agents.
Hazardous Decomposition Products: Carbon monoxide, carbon dioxide.
Hazardous Polymerization: Has not been reported.

11, TOXICOLOGICAL INFORMATION

Carcinogenicity:
CAS# 9004-62-0: Not listed by ACGIH, IARC, NIOSH, NTP, or OSHA.
Epidemiology: No information available.
Teratogenicity: No information available.
Reproductive Effects: No information available.
Neurotoxicity: No information available.
Mutagenicity: No information available.
Other Studies: Please refer to specific information.

12, ECOLOGICAL INFORMATION

Ecotoxicity: No information available.
Environmental Fate: No information reported.
Physical/Chemical: No information available.
Other: None

13, SPOSAL CONSIDERATIONS

Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines
for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local
hazardous waste regulations to ensure complete and accurate classification.
RCRA P-Series: None listed.
RCRA U-Series: None listed.

14,TRANSPORT INFORMATION

This product is not subject to DOT,ICAO,IMDG or ADR regulations.
For specific information regarding transportation of this products.please contact the KIMA CHEMICAL CO.,LTD.

15, REGULATORY INFORMATION

US FEDERAL

TSCA

CAS# 9004-62-0 is listed on the TSCA inventory.

Health & Safety Reporting List

None of the chemicals are on the Health & Safety Reporting List.

Chemical Test Rules

None of the chemicals in this product are under a Chemical Test Rule.

Section 12b

None of the chemicals are listed under TSCA Section 12b.

TSCA Significant New Use Rule

None of the chemicals in this material have a SNUR under TSCA.

SARA

Section 302 (RQ)

None of the chemicals in this material have an RQ.

Section 302 (TPQ)

None of the chemicals in this product have a TPQ.

Section 313

No chemicals are reportable under Section 313.

Clean Air Act:

This material does not contain any hazardous air pollutants. This material does not contain any Class 1 Ozone depletors. This material does not contain any Class 2 Ozone depletors.

Clean Water Act:

None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

OSHA:

None of the chemicals in this product are considered highly hazardous by OSHA.

STATE

CAS# 9004-62-0 is not present on state lists from CA, PA, MN, MA, FL, or NJ.

California No Significant Risk Level: None of the chemicals in this product are listed.

European/International Regulations

European Labeling in Accordance with EC Directives

Hazard Symbols:

Not available.

Risk Phrases:

Safety Phrases:

WGK (Water Danger/Protection)

CAS#9004-62-0: 1

Canada

CAS# 9004-62-0 is listed on Canada's DSL/NDSL List.

This product has a WHMIS classification of Not controlled..

CAS# 9004-62-0 is not listed on Canada's Ingredient Disclosure List.

Exposure Limits

16, OTHER INFORMATION

MSDS PREPARED BY: KIMA CHEMICAL CO.,LTD.

FOR ADDITIONAL NONEMERGENCY MSDS INFORMATION, CONTACT:

+86-533-6281218

To the best of the manufacturer's knowledge, the information contained herein is accurate. However, neither the manufacturer, nor any of

its affiliates, make any representative or warranties (expressed or implied), nor assumes any liability 9 including liability for any direct,

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information may be (without limitation) invalid if the specification material is used in combination with another, in a particular process, or

under unusual conditions. Determination of suitability of any material for any given purpose is the sole responsibility of the user who

assumes all risk and responsibility therefore. Al material may present unknown hazards and should be used with appropriate caution.

The manufacturer cannot and does not guarantee that the hazards described herein are the only ones that exist.