



MATERIAL SAFETY DATA SHEET

Section 1-Chemical Product and Company Identification

Substance/Chemical Name : Hydroxypropyl Methyl Cellulose

Trade Name: HPMC

Product Description : White or off-White Powder

CAS NO.: 9004-65-3

Manufacturer : Vanimate Industries Co., Ltd

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Section 2-Hazards Identification

.NFPA ratings

Health hazard 1

Fire 1

Reactivity Hazard 0

Potential Health Effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Section 3-Composition/information on ingredients

General Chemical Description: This chemical Product is a substance.

Components Number:	CAS Number	Approximate(%)by Wt.
Hydroxypropyl methyl cellulose	9004-65-3	≥90%
Water	7732-18-5	0-5%
Sodium chloride	7647-14-5	0-5%

Section 4-First Aid Measures

Eye Contact : Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid.

Skin Contact : Flush skin with plenty of water 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 cups of milk or water. Never give anything by mouth to an unconscious person. Get medical aid.

Inhalation: Remove from exposure and move to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Section 5-Firefighting 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. Non-combustible, substance itself does not burn but may decompose upon heating to produce irritating, corrosive and/or toxic fumes.

Suitable extinguishing Media: Water, CO₂, Dry chemicals, Foam-fog.

Fire/Explosion Hazards: Negligible fire hazard when exposed to heat or flame.

Flash Point : Not applicable.

Auto ignition Temperature: Not applicable.

Fire Fighting Procedure: Wear self contained breathing apparatus meeting NIOSH standards.

Other information: Wear self-contained breathing apparatus and complete personal protective equipment when potential for exposure to products of combustion exists.

Section 6-Accidental release measures

Small Spill: Use appropriate tools to put the spilled solid in a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements.

Large Spill: Use a shovel to put the material into a convenient waste disposal container. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system.

Section 7-Handling and storage

The regulations relating to storage remises apply to workshop where the product is handled.

Handling: Removal of mobile products need to wear protective gloves when products for the brittle material, handled with care when handling. Apply good manufacturing practice & industrial hygiene practices. Observe good personal hygiene, and do not eat, drink or smoke whilst handling. Wear protective goggles and gloves when handling material. Clean cloths, must be worn. Observe all warnings and precautions listed for the product.

Storage: Store in a cool and dry area away from heat sources and protected from light. Store in relatively stable area, to avoid collision occurred on a hard object. Avoid dust formation and control ignition sources. Keep air contact to a minimum.



Section 8-Exposure controls/personal protection

Engineering Controls: Use process enclosure, local exhaust ventilation, or other engineering controls to keep airborne levels exposure to airborne contaminants below the exposure limit.

Personal Protection: Safety glasses. Lab coat. Dust respirator. Be sure to use an approved/certified respirator or equivalent. Gloves.

Personal Protection in Case of a Large Spill: Splash goggles. Full suit. Dust respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient, consult a specialist before handling this product.

Exposure Limits: Not available.

Section 9-Physical and chemical properties

General Information

Form: Powder

Color: White

Odor: Odorless

Change in condition

Melting point/Melting range: Not available.

Boiling point/Boiling range: Not available.

Flash point: Not applicable.

Danger of explosion: Product does not present an explosion hazard.

Density : 0.35g/l

Vapor density : Not available.

Evaporation rate: Not available.

Solubility in/Miscibility with

Water: Soluble

PH-Value: 4.0-8.0

Section 10-Stability and reactivity

Chemical Stability: Stable under normal temperatures and pressures.

Solubility: Can be swollen in water, forming a transparent viscous milky white colloidal solution. In soluble in ethanol.

Incompatibilities with Other Materials: Reactive with oxidizing agents.

Decomposition Products: Not available.

Hazardous polymerization: Will not occur.

Section 11-Toxicological information

Routes of entry: Inhalation. Ingestion.

Toxicity to Animals

LD50: Not available.



LC50:Not available.

Chronic Effects on Humans: Not available.

Other Toxic Effects on Humans:Slightly hazardous in case of skin contact(irritant),of inhalation.

Special Remarks on Toxicity to Animals:Not available.

Special Remarks on other Toxic Effects on Humans

Acute Potential Health Effects

Skin: May cause skin irritation.

Eyes:May cause eye irritation.

Inhalation:May cause respiratory tract irritation.

Ingestion:Expected to be a low hazard.

Section 12-Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Bio-degradation:Possibly hazardous short term degradation product are not likely.However,long term degradation products may arise.

Special Remarks on the Products of Bio-degradation: Not available.

Section 13-Disposal considerations

Waste Disposal Methods: Disposal must be done as territory and/or local government regulation.Waste management information will help to receive the best results.

Disposal of packaging:Disposal of according to local regulation.Avoid disposing into drainage systems and into the environment.

Section 14-Transport information

DOT Classification: Not a DOT controlled material(United States).

Identification: Not Available.

Special Provisions for Transport:Not available.

TDG Classification: Not controlled under TDG(Canada).

ADR/RID Classification:Not controlled under ADR(Europe).

IMO/IMDG Classification:Not controlled under IMDG.

ICAO/IATA Classification:Not controlled under IATA.

Section 15-Regulation information

US FEDERAL

TSCA:Not listed on the TSCA inventory.It is for research and development use only.

Health & Safety Reporting List:None of the chemical are on the Health & Safety Reporting List.

CERCLA Hazardous Substances and corresponding RQs:None of the chemicals in this material have an RQ.



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

TSCA Significant New Use rule:None of the chemicals in this material have a SNUR under TSCA.

SARA Section 302 Extremely Hazardous Substances:None of the chemicals in this product have a TPQ.

Section 313: No chemicals are reportable under Section 313.

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

California Prop 65 California No Significant Risk Level:None of the chemicals in this product are listed.

REACH Regulation List of Substances of very high concern(SVHC):None of the ingredient is listed.

Chemical safety assessment:A Chemical Safety Assessment has not been carried out.

Section 16-Other information

References:Not available.

Other special considerations:Not available.

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