

Safety Data Sheet

1. IDENTIFICATION

Product Name:	Hydroxypropyl methyl cellulose (HPMC)
Other Names:	Cellulose Ether, Cellulose, Landercoll HPMC
Recommended Use:	HPMC is used as water-retention agent, binder and thickener in building materials such as drymix mortar, concrete, coatings.
Supplier:	Global Chemie ASCC Limited
Street Address:	88/123 Moo 2 Bangpoo Industrial Estate (North), Phraek Sa Mai, Mueang Samutprakan, Samutprakan 10280
Telephone:	+66 2324 6888
Fax:	+66 2324 6898-99
Emergency phone:	+668 1928 5826
All other inquiries:	+66 2324 6888 ext.320

2. HAZARDS IDENTIFICATION

Health Hazard Classification

Classification according to Regulation (EC) No 1272/2008[CLP]

This product does not meet the criteria for classification in any hazard class according to Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures.

Classification according to Council Directive 67/548/EEC [DSD]

This product does not meet the criteria for classification in any hazard class according to Directive 67/548/EEC on classification, labelling and packaging of substances.

Labelling according to Regulation (EC) No 1272/2008 [CLP]

No label information available. The product is not classified as hazardous under Regulation (EC)

No 1272/2008 [CLP/GHS].

Hazardous Categories

No data available.

Hazardous Statement

No data available.

GHS Pictograms

No data available.

Hazard Statements

No data available.

Precautionary Statements

No data available.

If on skin

No data available.

If in eyes

No data available.

If inhaled

No data available.

If swallowed

No data available.

Storage

No data available.

Disposal

No data available.

Signal Word No signal word

3. COMPOSITION: Information on Ingredients

Chemical Ingredient	CAS No.	UN No.	Proportion (%w/w)
Hydroxypropyl Methyl cellulose	9004-65-3	-	>85
Other substances (not Contributing to the classification of this product)	-	-	<15

Molecular Formula: $(C_2-H_6-O_2)_x(C-H_4-O)_x$

Molecular Weight: No data available.

4. FIRST AID MEASURES

For advice, contact Ramathibodi Poison Center (Phone: 1367) or a doctor.

General advice

In all cases of doubt, or when symptoms persist, seek medical attention.

Ingestion

Never give anything by mouth to an unconscious person. Get medical aid. DO NOT induce vomiting. If conscious and alert, rinse mouth by water.

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

Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Inhalation

If breathed in, move person into fresh air immediately. If not breathing give artificial respiration. If breathing is difficult, give oxygen. Get medical aid.

Most important symptoms and effects, both acute and delayed

No data available.

Indication of any immediate medical attention and special treatment needed

Persons with pre-existing skin, eye, or respiratory disease may be at increased risk from the irritant or allergic properties of this material. Attending physician should treat exposed patients symptomatically. Treat symptomatically and supportively.

5. FIRE FIGHTING MEASURES**Suitable extinguishing media**

Use agent most appropriate to extinguish fire. Use water spray, dry chemical, carbon dioxide, or appropriate foam.

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

Special hazards arising from the substance or mixture

No data available.

Advice for firefighters

Wear self-contained breathing apparatus for firefighting if necessary.

Further information

As in any fire, wear a self-contained breathing apparatus in pressure- demand, MSHA/NIOSH (approved or equivalent), and full protective gear. During a fire, irritating and highly toxic gases may be generated by thermal decomposition or combustion.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures
Use proper personal protective equipment. Avoid dust formation. Avoid breathing vapors, mist or gas.

Environmental precautions
Prevent further leakage or spillage if safe to do so. Do not let product enter drains.

Methods and materials for containment and cleaning up
Clean up spills immediately, observing precautions in the Protective Equipment section. Sweep up, and then place into a suitable container for disposal. Avoid generating dusty conditions. Provide ventilation.

7. HANDLING AND STORAGE

Precautions for safe handling
Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection. 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.

Conditions for safe storages
Store in a tightly closed container. Store in a cool, dry, well-ventilated place away from incompatible substances.

8. EXPOSURE CONTROLS: PERSONAL PROTECTION

Control parameters

Occupational exposure limit values
There is not currently occupational exposure limit values established for the substance.

Chemical Name	ACGIH	NIOSH	OSHA- Final PELs
Hydroxypropyl Methyl Cellulose	none listed	none listed	none listed

OSHA Vacated PELs: Hydroxypropyl Methyl Cellulose Ether: No OSHA Vacated PELs are listed for this chemical.

Exposure controls

Appropriate engineering controls
Use adequate ventilation to keep airborne concentrations low.

Thermal hazards: Wear suitable protective clothing to prevent heat.

Personal protective equipment

Eye/face protection	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 protection	Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.
Respiratory protection	Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Always use a NIOSH or European Standard EN 149 approved respirators when necessary.
Control of environmental exposure	Avoid discharge into the environment. According to local regulations, Federal and official regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

Property	Unit of Measurement	Typical Value
Appearance	-	powder
Odour	-	Odorless
pH	-	5-9 (1%water solution)
Boiling point	°C	No data available
Melting point	°C	No data available
Flash point	°C	No data available
Flammability	-	No data available
Autoignition Temperature	°C	170 (EN15188)
Decomposition Temperature	°C	No data available
Lower/Upper Flammability Limits	g/m ³	Lower limit: 30, Upper limit: No data available
Density @ 20°C	g/cm ³	0.20-0.55
Specific Gravity @ 25°C	-	No data available
Viscosity @ 20°C	mPa.s	No data available
Vapor pressure	mmHg	No data available
Vapor density	kPa (Air = 1)	No data available
Evaporation Rate	(n-Butyl acetate = 1)	No data available
Water Solubility	-	Soluble in water and gel will form with the temperature rising
Solubility in other solvents Partition coefficient	(n-octanol/water)	No data available
Coefficient of Thermal Expansion	per Deg °C	No data available
Particle characteristics	-	No data available
Color	-	White to off-white
Dust explosion class	-	St1
Combustion	-	Combustible solid

The values listed are indicative of this product's physical and chemical properties. For a full product specification, please consult the Product Data Sheet.

10. STABILITY AND REACTIVITY**Chemical Stability**

Stable under normal temperatures and pressures.

Reactivity

No data available.

Possibility of hazardous reactions

No data available.

Conditions to avoid

Incompatible materials, dust generation, excess heat, strong oxidants, moisture.

Incompatible Materials

Oxidizing agents.

Hazardous decomposition products

Carbon monoxide, irritating and toxic fumes and gases, carbon dioxide.

11. TOXICOLOGICAL INFORMATION**Information on toxicological effects****Acute toxicity**

No data available.

Skin corrosion/irritation:

Skin, rabbit: no data available.

Serious eye damage/irritation:

Eyes, rabbit: no data available.

Respiratory or skin sensitization:

Guinea pig maximization test: no data available.

Specific target organ toxicity -single exposure

No data available

Specific target organ toxicity -repeated exposure

No data available

Carcinogenicity, Mutagenicity and Toxicity for Reproduction:

No data available.

Additional Information

LD50/LC50: Not available.

Carcinogenicity: CAS# 9004-65-3: Not listed by ACGIH, IARC, NTP, or CA Prop 65.

Epidemiology: No data available.

Teratogenicity: No data available.

Reproductive Effects: No data available.

Mutagenicity: No data available.

Neurotoxicity: No data available.

Other Studies: No data available.

12. ECOLOGICAL INFORMATION**Toxicity**

Acute toxicity to fish: No data available.

Acute toxicity to daphnia: No data available.

Acute toxicity to algae: No data available.

Acute toxicity to bacteria: No data available.

Persistence and degradability

No data available.

Bioaccumulative potential

No data available.

Mobility in soil

No data available.

Results of PBT and vPvB assessment

No data available.

Other adverse effects

No data available.

13. DISPOSAL CONSIDERATIONS**Disposal Methods****Product**

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: Not listed.

RCRA U-Series: Not listed.

Contaminated packaging

Dispose of as unused product.

14. TRANSPORT INFORMATION

Road and Rail Transport		Marine Transport		Air Transport	
UN. Number	Not regulated	UN. Number	Not regulated	UN. Number	Not regulated
Class/Item	Not regulated	Class/Item	Not regulated	Class/Item	Not regulated
Hazard Symbol	Not regulated	Hazard Symbol	Not regulated	Hazard Symbol	Not regulated
Proper Shipping Name	Not regulated	Proper Shipping Name	Not regulated	Proper Shipping Name	Not regulated
Packing Group	Not regulated	Packing Group	Not regulated	Packing Group	Not regulated
		Marine Pollutant	Not regulated		

15. REGULATORY INFORMATION**Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulation:**

According to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

Contains no substance subject to Regulation (EU) No 649/2012 of the European Parliament and of the Council of 4 July 2012 concerning the export and import of hazardous chemicals.

Contains no substance subject to Regulation (EU) No 2019/1021 of the European Parliament and of the Council of 20 June 2019 on persistent organic pollutants

Contains no substance subject to Regulation (EU) 2019/1148 of the European Parliament and of the Council of 20 June 2019 on the marketing and use of explosives precursors.

Inventory of Chemical

USA - TSCA: This substance is listed in the inventory.

Canada - DSL: This substance is listed in the inventory.

Australia - AICS: This substance is listed in the inventory.

Korea - ECL: This substance is listed in the inventory.

Japan - ENCS: This substance is listed in the inventory.

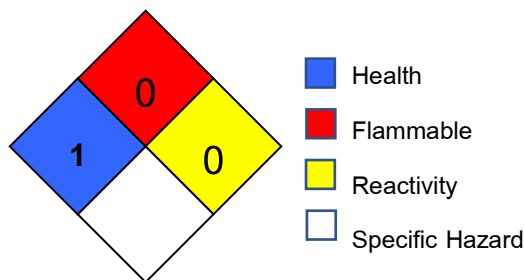
China - IECSC: This substance is listed in the inventory.

Chemical Safety Assessment

No Chemical Safety Assessment has been carried out for this substance.

16. OTHER INFORMATION

National Fire Protection Association (USA) :



SDS Distribution : The information contained herein is based on our current knowledge of the underlying data and is intended to describe the product for the purpose of health, safety and environmental requirements only. No warranty of guarantee is expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product.

Prepared By : Quality Control Department / Global Chemie ASCC Limited

Abbreviations:

CLP: EU regulation (EC) No 1272/2008 on classification, labelling and packaging of chemical substances and mixtures.

CAS: Chemical Abstracts Service (division of the American Chemical Society).

EINECS: European Inventory of Existing Commercial Chemical Substances.

RID: European Rail Transport.

IMDG: International Maritime Code for Dangerous Goods.

IATA: International Air Transport Association.

OSHA: The United States Occupational Safety and Health Administration.

TSCA: Toxic Substances Control Act, The American chemical inventory.

DSD: Dangerous Substance Directive (67/548/EEC).

IECSC: Inventory of existing chemical substances in China.

DSL: Domestic Substances List, The Canadian chemical inventory.

AICS: The Australian Inventory of Chemical Substances.

ECL: Existing Chemicals List, the Korean chemical inventory.

ENCS: Japanese Existing and New Chemical Substances.

References:

- Supplier Material Safety Data Sheets

The information sourced for the preparation of this document was correct and complete at the time of writing to the best of the writer's knowledge. The document represents the commitment to the company's responsibilities surrounding the supply of this product, undertaken in good faith. This document should be taken as a safety guide for the product and its recommended uses but is in no way an absolute authority. Please consult the relevant legislation and regulations governing the use and storage of this type of product. No warranty and guarantee are expressed or implied regarding the accuracy of these data or the results to be obtained from the use of the product for further information, please contact Global Chemie ASCC Limited.