

MATERIAL SAFETY DATA SHEET

Version1.3

Date of last alteration:02/18/2025

1. Chemical Product and Company Identification

Product Name : Hydroxypropyl Starch Ether
Other name : HPS, Starch ether
Recommended Uses : Cement or gypsum based dry mixed mortar
Manufacturer : Shandong Charing Industry Co.,Ltd
Address : ROOM 1402,ZONE 17 AND 18, NO.19BUILDING, LUNENG
LINGXIUCHENG, JINAN CITY, SHANDONG PROVINCE,CHINA
Post Code : 250000
TEL : +86-131-7667-0070
E-mail : sdcharing@sdcharing.com

2. Hazards Identification

GHS Classification : None
GHS Classification elements : None
Other hazards : Risk of dust explosion

3. Composition, Information on Ingredients

Chemical characterization (preparation) : It's made of a series of chemical processing and non-ionic cellulose ether.

Main ingredient	Composition	CAS NO.
Modified starch	≥90%	9049-76-7
Sodium Sulphate	6%-10%	68140-10-3

4. First Aid Measures

4.1 Description of first aid measures

General information:

Under ordinary workplace conditions : No special measures required.

After inhalation:

Provide fresh air.

After contact with the skin:

Wash with plenty of water or water and soap.

After contact with the eyes:

Rinse immediately with plenty of water. Seek medical advice in case of continuous irritation.

5. Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media:

Water spray, water mist, extinguishing powder, foam, carbon dioxide.

Extinguishing media which must not be used for safety reasons : water jet.

5.2 Advice for firefighters

Special protective equipment for fire fighting:

Use respiratory protection independent of recirculated air.

6. Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Avoid dust formation. Do not breathe dust.

6.2 Environmental precautions

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Cover any spilled material in accordance with regulations to prevent dispersal by wind.

6.3 Methods and material for containment and cleaning up

Take up mechanically and dispose of according to local/state/federal regulations.

Further information:

Eliminate all sources of ignition. Observe notes under 7.

6.4 Reference to other sections

Relevant information in other sections have to be considered. This applies in particular for information given on personal protective equipment (8.) and on disposal (13.).

7. Handling and storage**Precautions for safe handling**

Direct sunshine and raining, moisture must be avoided.

Storage:

Store in a cool, well-ventilated area. Keep away from ignition sources, heat and flame. Store in a tightly closed container. Incompatibilities: strong oxidizing agents and foods.

8. Exposure controls/personal protection**8.1 Control parameters****8.2 Exposure controls****8.2.1 Exposure in the work place limited and controlled****General protection and hygiene measures:**

Do not breathe dust. Do not eat, drink or smoke when handling.

Personal protection equipment:**Respiratory protection**

In case of dust formation: fine dust mask without protection rating.

Hand protection

Recommendation: rubber gloves.

Eye protection

Recommendation in case of dust formation: tight fitting protective goggles.

8.2.2 Exposure to the environment limited and controlled

Only introduce into water purification plants in diluted state. Do not introduce large amounts into purification plants.

8.3 Further information for system design and engineering measures

Observe regulations for protection against explosion.

9. Physical and chemical properties**9.1 Information on basic physical and chemical properties****General information:**

Physical state / form	: solid - powder
Colour	: White to off-white fine powder
Odour	: odourless
pH (as delivered)	: Not applicable
Viscosity	: Not applicable
Boiling Point	: Not applicable
Flash Point	: Not applicable
Vapor Pressure	: Not applicable
Vapor Density	: Not applicable

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Tapped Density	: 0.55 - 0.99 g/ml
Solubility	: Practically insoluble in methylene chloride; insoluble but swells in contact with water.
Package	: 25kg net per bag

10. Stability and reactivity

10.1 Chemical stability

Stable under normal temperatures and pressures

10.2 Conditions to avoid

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

10.3 Hazardous decomposition products

Carbon Monoxide, irritating and toxic fumes and gases, carbon dioxide

11. Toxicological information

11.1 Epidemiology	: No information available
11.2 Teratogenicity	: No information available
11.3 Reproductive Effects	: No information available
11.4 Neurotoxicity	: No information available
11.5 Mutagenicity	: No information available
11.6 Other studies	: No data available

12. Ecological Information

No information available.

13. Disposal considerations

Discarded chemical is classified as a hazardous waste. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

14. Transport information

14.1-4 UN number; UN proper shipping name; Transport hazard class(es); Packing group

Road ADR:

Valuation : Not regulated for transport by IMDG/IMO

Railway RID:

Valuation : Not regulated for transport by IMDG/IMO

Transport by sea IMDG-Code:

Valuation : Not regulated for transport by IMDG/IMO

Air transport ICAO-TI/IATA-DGR:

Valuation According to IMDG/IMO, it's not dangerous cargo : Not regulated for transport by IMDG/IMO

15. Regulatory information

Reference to the local, national, US, EU and international regulation

TSCA : US

16. Other information

The details in this document are based on the state of our knowledge at the time of revision. They do not constitute an assurance of the described product properties in terms of statutory warranty requirements.

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