KIMA CHEMICAL CO.LTD

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Material Safety Data Sheet Hydroxypropyl Starch ether

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Substance

Substance name : HYDROXYPROPYL STARCH ETHER

Product code : HPS901

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Use of the substance/mixture : Rheological Additive Coating material

Chemical for use in construction

Special applications

1.2.2. Uses advised against

Restrictions on use : No additional information available

1.3. Details of the supplier of the safety data sheet

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1.4. Emergency telephone number

Emergency number : +86-533-6281218

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Not classified

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

No labelling applicable

2.3. Other hazards

Other hazards not contributing to the classification : Dust may form explosive mixture in air. Handle in accordance with good industrial hygiene

and safety practice.

SECTION 3: Composition/information on ingredients

3.1. Substances

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Comments



: A registration number is not available for this substance as the substance or its use are exempted from registration according to Article 2 REACH Regulation (EC) No 1907/2006.

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Name : HYDROXYPROPYL STARCH ETHER

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
Starch, 2-hydroxypropyl ether	CAS-No.: 9049-76-7	> 85	Not classified
Trisodium citrate	CAS-No.: 68-04-2 EC-No.: 200-675-3	≥ 5 – < 10	Not classified
Water	CAS-No.: 7732-18-5 EC-No.: 231-791-2	≥ 5 – < 10	Not classified

Comments : When used and handled according to specifications, the product does not have any harmful

effects according to our experience and the information provided to us

3.2. Mixtures

Not applicable

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures after inhalation : Remove person to fresh air and keep comfortable for breathing.

First-aid measures after skin contact : Wash skin with plenty of water.

First-aid measures after eye contact : Rinse eyes with water as a precaution.

First-aid measures after ingestion : Call a poison center or a doctor if you feel unwell.

4.2. Most important symptoms and effects, both acute and delayed

Symptoms/effects : Warning - substance not yet tested completely.

Symptoms/effects after skin contact : May cause sensitisation of susceptible persons by skin contact.

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Sand. Alcohol resistant foam. Chemical powder. Carbon dioxide.

5.2. Special hazards arising from the substance or mixture

Hazardous decomposition products in case of fire : Toxic fumes may be released. Carbon oxides (CO, CO2).

5.3. Advice for firefighters

Protection during firefighting : Do not attempt to take action without suitable protective equipment. Self-contained

breathing apparatus. Complete protective clothing.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Avoid dust formation. Do not breathe dust. Forms slippery surfaces with water.

6.1.1. For non-emergency personnel

Emergency procedures : Ventilate spillage area.

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6.1.2. For emergency responders

Protective equipment

: Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection".

6.2. Environmental precautions

Avoid release to the environment

6.3. Methods and material for containment and cleaning up

Methods for cleaning up

: Shovel or sweep up and put in a closed container for disposal. Avoid dust formation.

Other information

: Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling

: Ensure good ventilation of the work station. Wear personal protective equipment. Avoid dust formation. Dust may form explosive mixture in air. Keep away from sources of ignition - No smoking.

Hygiene measures

: Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Storage conditions

: Store in a well-ventilated place. Keep cool. Material is hygroscopic. Protect from atmospheric moisture and water.

7.3. Specific end use(s)

Rheological Additive. Chemical for use in construction. Thickener.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

No additional information available

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

Additional information

: Obey TLV for common dust, if applicable

8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

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8.2.2. Personal protection equipment

8.2.2.1. Eye and face protection

Eye protection:

Not required for normal conditions of use

8.2.2.2. Skin protection

Skin and body protection:

Wear suitable protective clothing

Hand protection:

Not required for normal conditions of use. Choosing the proper glove is a decision that depends not only on the type of material, but also on other quality features, which differ for each manufacturer. Please follow the instructions related to the permeability and the penetration time provided by the manufacturer

8.2.2.3. Respiratory protection

Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

Respiratory protection	otection		
Device	Filter type	Condition	Standard
Breathing apparatus with filter	Type P1	Short term exposure	

8.2.2.4. Thermal hazards

No additional information available

8.2.3. Environmental exposure controls

Environmental exposure controls:

Avoid release to the environment.

Other information:

Do not eat, drink or smoke when using this product. Wash hands immediately after handling the product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state : Solid
Colour : yellowish.
Appearance : Powder.
Odour : characteristic.
Odour threshold : Not available

Melting point : Not specifically applicable

Freezing point : Not available

Boiling point : Not specifically applicable

Flammability : Not available

Explosive properties : Product is not explosive. Dust may form explosive mixture in air.

Explosive limits Not applicable Lower explosive limit (LEL) : 60 g/m³ Upper explosive limit (UEL) : Not applicable : Not applicable Flash point : > 460 °C Auto-ignition temperature Decomposition temperature : Not available 8 - 10 10 g/l рΗ pH solution : Not available Viscosity, kinematic Not applicable Solubility Water: > 10 g/l Partition coefficient n-octanol/water (Log Kow) : Not available

Log Pow : < 1

Vapour pressure : Not available Vapour pressure at 50 °C : Not available

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Density : 1.1 – 1.5 g/cm³ @ 20 °C

Relative density : Not available Relative vapour density at 20 °C : Not applicable : Not available Particle size Particle size distribution : Not available Particle shape : Not available Particle aspect ratio : Not available Particle aggregation state : Not available : Not available Particle agglomeration state : Not available Particle specific surface area Particle dustiness : Not available

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

Minimum ignition energy : > 30 mJ

Bulk density : Not determined

Conbustion class : 5
Smoldering temperature : 280 °C
Dust explosion category : 1
pmax : 9,2 bar
KSt : 80 bar*m/s

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

None under recommended storage and handling conditions (see section 7).

10.5. Incompatible materials

Strong oxidizing agent.

10.6. Hazardous decomposition products

Under normal conditions of storage and use, hazardous decomposition products should not be produced.

SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity (oral) : Not classified Acute toxicity (dermal) : Not classified Acute toxicity (inhalation) : Not classified

Tylovis SE 7

LD50 oral rat > 2000 mg/kg (OECD 401 method)

Skin corrosion/irritation : Not classified pH: 8 – 10 10 g/l

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Serious eye damage/irritation : Not classified pH:

8 – 10 10 g/l

Respiratory or skin sensitisation : Not classified
Germ cell mutagenicity : Not classified
Carcinogenicity : Not classified
Reproductive toxicity : Not classified
STOT-single exposure : Not classified
STOT-repeated exposure : Not classified
Aspiration hazard : Not classified

11.2. Information on other hazards

No additional information available

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : The product is not considered harmful to aquatic organisms nor to cause long-term adverse

effects in the environment.

Hazardous to the aquatic environment, short-term

(acute)

nort-term : Not classified

Hazardous to the aquatic environment, long-term

(chronic)

: Not classified

Tylovis SE 7	
EC50 - Other aquatic organisms [1]	> 1000 mg/l (OECD 209 method)
Trisodium citrate (68-04-2)	
LC50 fish 1	18000 – 32000 mg/l (Exposure time: 96 h - Species: Poecilia reticulata)
EC50 Daphnia 1	5600 – 10000 mg/l (Exposure time: 48 h - Species: Daphnia magna)

12.2. Persistence and degradability

Tylovis SE 7	
Persistence and degradability	Biodegradable.
Chemical oxygen demand (COD)	< 1100 mg/g

12.3. Bioaccumulative potential

Tylovis SE 7	
Log Pow	<1
Bioaccumulative potential	Not potentially bioaccumulable.

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Do not release undiluted or in higher quantities into the groundwater, sewerage or waters

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SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions.

European List of Waste (LoW) code : 16 03 06 - organic wastes other than those mentioned in 16 03 05

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID	
1.1. UN number or ID number					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
4.2. UN proper shippir	ng name				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.3. Transport hazard	class(es)				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
4.4. Packing group					
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	
14.5. Environmental ha	zards				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	

14.6. Special precautions for user

Overland transport

Not applicable

Transport by sea

Not applicable

Air transport

Not applicable

Inland waterway transport

Not applicable

Rail transport

Not applicable

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

15.1.1. EU-Regulations

No REACH Annex XVII restrictions

Tylovis SE 7 is not on the REACH Candidate List

Tylovis SE 7 is not on the REACH Annex XIV List

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HPS is not 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.

HPS is not 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.

15.1.2. National regulations

Listed on the United States TSCA (Toxic

Substances Control Act) inventory Listed on

the Canadian DSL (Domestic Substances

List)

Listed introduction on Australian Industrial Chemicals Introduction Scheme (AICIS Inventory)

Listed on the EEC inventory EINECS (European Inventory of Existing Commercial Chemical Substances)-

Directive 79/831/EEC, sixth Amendment of Directive 67/548/EEC (dangerous substances)

Listed on the Japanese ENCS (Existing &

New Chemical Substances) inventory Listed

on PICCS (Philippines Inventory of

Chemicals and Chemical Substances) Listed

on NZIoC (New Zealand Inventory of

Chemicals)

Listed on IECSC (Inventory of Existing Chemical

Substances Produced or Imported in China) Listed on

KECL/KECI (Korean Existing Chemicals Inventory)

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

No additional information available

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.