according to Regulation (EU) 2015/830

Date of issue: 9/29/2017 Revision date: 5/13/2020 Version: 1.0

1.1. Product identifier	
Frade name	2-Hydroxypropyl Methacrylate (2-HPMA)
Other name	: Propylene glycol monomethacrylate
REACH registration number	01-2119490226-37-****
.2. Relevant identified uses of the s	substance or mixture and uses advised against
.2.1. Relevant identified uses	
Main use category	: Applied in the manufacturing of thermosetting acrylic coating ,acrylic acid modified polyester coating,water-soluble electoplate coating binder,paper coating ,photosensitive coating agent,etc.
.2.2. Uses advised against	
Restrictions on use	: No information available
.3. Details of the supplier of the saf	fety data sheet
Changzhou Hickory Chemical Co., LTD. Io.2, Weihua Road ,Xinbei District ,Changzh	hou City, Jiangsu, China
213127	
F +86-519-68193649 - F +86-519-85204327	
ales3@hickchem.com	
.4. Emergency telephone number	
Emergency number	: +86-15195011207
<b>ECTION 2: Hazards identificatio</b>	n
.1. Classification of the substance of	or mixture
kin sensitisation, Category 1 ull text of H statements : see section 16	H317
Adverse physicochemical, human healthMay cause an allergic skin reaction. Causes2.2.Label elements	
May cause an allergic skin reaction. Causes	serious eye irritation.
May cause an allergic skin reaction. Causes 2.2. Label elements Labelling according to Regulation (EC) No Hazard pictograms (CLP)	serious eye irritation.
May cause an allergic skin reaction. Causes 2. Label elements Labelling according to Regulation (EC) No Hazard pictograms (CLP) Signal word (CLP)	serious eye irritation. o. 1272/2008 [CLP] : GHS07 : Warning : H317 - May cause an allergic skin reaction.
May cause an allergic skin reaction. Causes 2.2. Label elements abelling according to Regulation (EC) No.	serious eye irritation. o. 1272/2008 [CLP] : GHS07 : Warning
ay cause an allergic skin reaction. Causes 2. Label elements abelling according to Regulation (EC) No azard pictograms (CLP) ignal word (CLP) azard statements (CLP)	<ul> <li>serious eye irritation.</li> <li>o. 1272/2008 [CLP] </li> <li>GHS07 </li> <li>Warning </li> <li>H317 - May cause an allergic skin reaction. H319 - Causes serious eye irritation. </li> <li>P261 - Avoid breathing dust/fume/gas/mist/vapours/spray. P280 - Wear protective gloves/protective clothing/eye protection/face protection. P302+P352 - IF ON SKIN: Wash with plenty of water. P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 - If eye irritation persists: Get medical advice/attention. P501 - Dispose of contents/container to hazardous or special waste collection point, in</li> </ul>

# vPvB: not yet assessed

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SECTION 3: Composition/information on ingredients

#### 3.1. Substances

# Not applicable

#### 3.2. **Mixtures**

Name	Product identifier	%	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-Hydroxypropyl Methacrylate (2-HPMA)	(CAS-No.) 27813-02-1 (EC-No.) 248-666-3	99	Skin Sens. 1H317 Eye Irrit. 2 H319
Water	(CAS-No.) 7732-18-5 (EC-No.) 231-791-2	1	Not classified

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. Get medical advice if necessary.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation or rash occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. If eye irritation persists: Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth out with water. Call a poison center or a doctor if you feel unwell.
4.2. Most important symptoms and effect	ts, both acute and delayed
Symptoms/effects after skin contact	: May cause an allergic skin reaction.
Symptoms/effects after eye contact	: Eye irritation.
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	: Water spray. Dry powder. Foam.
5.2. Special hazards arising from the sub	stance or mixture
Fire hazard	: In case of fire, irritating gases come free.
Hazardous decomposition products in case of	: Toxic fumes may be released.
fire	
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 meas	ures
6.1. Personal precautions, protective equ	ipment and emergency procedures
6.1.1. For non-emergency personnel	
Emergency procedures	: Ventilate spillage area. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray.
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. Do not allow in	to drains or water courses.
6.3. Methods and material for containme	nt and cleaning up
Other information	: Dispose of materials or solid residues at an authorized site.
6.4. Reference to other sections	
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. Avoid contact with skin and eyes. Avoid breathing dust/fume/gas/mist/vapours/spray. Wear personal protective equipment.
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7.2.       Conditions for safe storage, including any incompatibilities         Storage conditions       : Store in a well-ventilated place. Keep cool.         Store the products in cool,shady and ventilated conditons.       Keep far away from fire.         6 months from date of delivery at a maximum storage temperature of 30 °C         7.3.       Specific end use(s)         No information available.	ash contaminated Always wash hands
Store the products in cool,shady and ventilated conditons.         Keep far away from fire.         6 months from date of delivery at a maximum storage temperature of 30 °C         7.3.       Specific end use(s)	
Keep far away from fire.         6 months from date of delivery at a maximum storage temperature of 30 °C         7.3.       Specific end use(s)	
<ul> <li>6 months from date of delivery at a maximum storage temperature of 30 °C</li> <li>7.3. Specific end use(s)</li> </ul>	
7.3. Specific end use(s)	
No information available.	
SECTION 8: Exposure controls/personal protection	
8.1. Control parameters	
No additional information available	

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# 8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

# Hand protection:

Protective gloves

Eye protection:

Safety glasses

## Skin and body protection:

Wear suitable protective clothing

# Respiratory protection:

In case of insufficient ventilation, wear suitable respiratory equipment

# Environmental exposure controls:

Avoid release to the environment.

# SECTION 9: Physical and chemical properties

9.1. Information on basic physical and ch	emical properties
Physical state	: Liquid
Colour	: Clear.
Odour	: Slight pungent odour
Odour threshold	: No data available
рН	: No data available
pH solution	: No data available
Relative evaporation rate (butylacetate=1)	: No data available
Relative evaporation rate (ether=1)	: No data available
Melting point	: No data available
Freezing point	: <b>-58</b> ℃
Boiling point	: 240℃(760mm Hg)
Flash point	: 96°C (OPEN CUP)
Critical temperature	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: Not flammable
Vapour pressure	: No data available
Vapour pressure at 50 °C	: No data available
Critical pressure	: No data available
Relative vapour density at 20 °C	: No data available
Relative density	: No data available
Relative density of saturated gas/air mixture	: No data available

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Density	: 1.066	
	(WATER=1@20℃	)
Relative gas density	: No data available	
Solubility	: Dissolved in water	
Log Pow	: No data available	
Log Kow	: No data available	
Viscosity, kinematic	: No data available	
Viscosity, dynamic	: 9.28 mPa•s (25℃)	
Explosive properties	: No data available.	
Oxidising properties	: No data available.	
Explosive limits	: No data available	
Lower explosive limit (LEL)	: No data available	
Upper explosive limit (UEL)	: No data available	
Color(Pt-Co)	: <=20#	
Inhabitor	: 200±40ppm(MEHQ	!)
Refractive index	: N20/D 1.4470(lit.)	

#### **Other information** 9.2.

No additional information available

SECTION 10: Stability and reactivity	
10.1. Reactivity	
The product is non-reactive under normal condition	ons 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 cor	nditions of use.
10.4. Conditions to avoid	
None under recommended storage and handling	conditions (see section 7).
10.5. Incompatible materials	
Strong acids. Strong bases. Strong oxidizing age	nts.
10.6. Hazardous decomposition products	
Under normal conditions of storage and use, haz	ardous decomposition products should not be produced.
SECTION 11: Toxicological informati	on
11.1. Information on toxicological effects	
Acute toxicity (oral)	: Not classified
Acute toxicity (dermal)	: Not classified
Acute toxicity (inhalation)	: Not classified
2-Propenoic acid, 2-methyl-, monoester with	
LD50 oral rat	11200 mg/kg
LD50 dermal rabbit	> 3000 mg/kg
Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg
Skin corrosion/irritation	: Not classified
	pH: no data available
Serious eye damage/irritation	: Causes serious eye irritation.
	pH: no data available
Respiratory or skin sensitisation	: May cause an allergic skin reaction.
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified

Appiration bezond	: Not classified
Aspiration hazard	
SECTION 12: Ecological information	ation
12.1. Toxicity	
Ecology - general	: The product is not considered harmful to aquatic organisms nor to cause long-term adverse effects in the environment.
Acute aquatic toxicity	: Not classified
Chronic aquatic toxicity	: Not classified
12.2. Persistence and degradability	
2-Hydroxypropyl Methacrylate (2-HPM	A)
Persistence and degradability	No information available.
12.3. Bioaccumulative potential	
2-Hydroxypropyl Methacrylate (2-HPM	A)
Log Pow	no data available
Log Kow	no data available
Bioaccumulative potential	No information available.
2-Propenoic acid, 2-methyl-, monoeste	er with 1.2-propanediol (27813-02-1)
Log Pow	0.97
12.4. Mobility in soil	
2-Hydroxypropyl Methacrylate (2-HPM	۵)
Ecology - soil	No information available.
12.5. Results of PBT and vPvB asse	
2-Hydroxypropyl Methacrylate (2-HPM	A)
PBT: not yet assessed	
vPvB: not yet assessed	
12.6. Other adverse effects	
Other adverse effects	: No information available.
SECTION 13: Disposal consider	ations
13.1. Waste treatment methods	
Waste treatment methods           Waste treatment methods	: Dispose of contents/container in accordance with licensed collector's sorting instructions.

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

In accordance with ADR / RID / IMDG / IATA / ADN				
ADR	IMDG	IATA	ADN	RID
14.1. UN number				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.2. UN proper shippi	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
14.4. Packing group				
Not applicable	Not applicable	Not applicable	Not applicable	Not applicable
14.5. Environmental hazards				
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

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### - Inland waterway transport

Not applicable

### - Rail transport

Not applicable

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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**

Contains no REACH substances with Annex XVII restrictions

Contains no substance on the REACH candidate list

Contains no REACH Annex XIV substances

#### **National regulations** 15.1.2.

### Germany

VwVwS Annex reference	: Water hazard class (WGK) 1, low hazard to waters (Classification according to VwVwS, Annex 2)
12th Ordinance Implementing the Federal Immission Control Act - 12.BImSchV	: Is not subject of the 12. BlmSchV (Hazardous Incident Ordinance)
Netherlands	
SZW-lijst van kankerverwekkende stoffen	: None of the components are listed
SZW-lijst van mutagene stoffen	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Borstvoeding	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Vruchtbaarheid	: None of the components are listed
NIET-limitatieve lijst van voor de voortplanting giftige stoffen – Ontwikkeling	: None of the components are listed
Denmark	
Recommendations Danish Regulation	: Young people below the age of 18 years are not allowed to use the product
15.2. Chemical safety assessment	
No chemical safety assessment has been carrie	d out

#### 15.2. **Chemical safety assessment**

No chemical safety assessment has been carried out

## SECTION 16: Other information

Abbreviations and acronyms:	
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate
BLV	Biological limit value
CAS-No.	Chemical Abstract Service number
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
EC50	Median effective concentration
EC-No.	European Community number
EN	European Standard
ΙΑΤΑ	International Air Transport Association

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IMDG       International Maritime Dangerous Goods         LC50       Median lethal concentration         LD50       Median lethal dose         LOAEL       Lowest Observed Adverse Effect Level         NOAEC       No-Observed Adverse Effect Level         NOAEL       No-Observed Adverse Effect Level         NOEC       No-Observed Effect Level	
LD50       Median lethal dose         LOAEL       Lowest Observed Adverse Effect Level         NOAEC       No-Observed Adverse Effect Concentration         NOAEL       No-Observed Adverse Effect Level	
LOAEL     Lowest Observed Adverse Effect Level       NOAEC     No-Observed Adverse Effect Concentration       NOAEL     No-Observed Adverse Effect Level	
NOAEC     No-Observed Adverse Effect Concentration       NOAEL     No-Observed Adverse Effect Level	
NOAEL         No-Observed Adverse Effect Level	
NOTO No Observed Effect Concentration	
NOEC No-Observed Effect Concentration	
OEL Occupational Exposure Limit	
PBT Persistent Bioaccumulative Toxic	
PNEC Predicted No-Effect Concentration	
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1	1907/2006
RID Regulations concerning the International Carriage of Dangerous Goods by Rail	
SDS Safety Data Sheet	
vPvB Very Persistent and Very Bioaccumulative	
WGK Water Hazard Class	
Full text of H- and EUH-statements:	
H317 May cause an allergic skin reaction.	
H319 Causes serious eye irritation.	

### SDS EU (REACH Annex II)

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 not therefore be construed as guaranteeing any specific property of the product

or of of http://p