

## 1 Identification of the substance/mixture and of the company/undertaking

### · Product identifier

· Tradename: 2-HPMA (Hydroxypropylmethacrylate)

· CAS-number:

27813-02-1

EG-number:

248-666-3

· Relevant identified uses of the substance or mixture and uses advised against  
Identified uses : Laboratory chemicals, Manufacture of substances

**Details of the supplier of the safety data sheet**

**Manufacturer/Supplier:**

Anhui Renxin Environmental Protection Materials Co.,Ltd.  
Xinfa Industrial Park,Langxi County,  
Xuancheng Anhui Province  
China

## 2 Hazards identification

### Classification of the substance or mixture

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

Eye irritation (Category 2)H319

Skin sensitization (Category 1)H317

### Classification according to EU Directives 67/548/EEC or 1999/45/EC

May cause sensitization by skin contact. Irritating  
to eyes

### Label elements

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

Pictogram

Signal word Danger



Signal word Danger

### Hazard statement(s)

H317 May cause an allergic skin reaction.

H319 Causes serious eye irritation.

**Precautionary statement(s)**

P201 Obtain special instructions before use.

P261 Avoid breathing dust/ fume/ gas/ mist/ vapors/ spray.

P280 Wear protective gloves.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**Supplemental Hazard Statements**

none

Restricted to professional users.

According to European Directive 67/548/EEC as amended.

Hazard symbol(s)



**R-phrases(s)**

R36 Irritating to eyes

R43 May cause sensitization by skin contact.

### 3 Composition/information on ingredients

**Substances**

Formula : C7H12O3

Molecular Weight : 144,17 g/mol

Component

**methacrylic acid, monoester with propane-1,2-diol**

CAS-No. 27813-02-1

EC-No. 248-666-3

Classification

Eye Irrit. 2; H319

Skin Sens. 1; H317

Xi, R36/ R43

Concentration

< 100%

### 4 First aid measures

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

**If breathed in**, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Take victim immediately to hospital. Consult a physician.

**In case of eye contact**

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

**If swallowed**

Do NOT induce vomiting. Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

Most important symptoms and effects, both acute and delayed

To the best of our knowledge, the chemical, physical, and toxicological properties have not been

thoroughly investigated.

Indication of any immediate medical attention and special treatment needed

no data available

## 5 Firefighting measures

### Suitable extinguishing media

Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

### Special hazards arising from the substance or mixture

Carbon oxides, nitrogen oxides (NO<sub>x</sub>)

### Advice for firefighters

Wear self contained breathing apparatus for fire fighting if necessary.

### Further information

Use water spray to cool unopened containers.

## 6 Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Wear respiratory protection. Avoid breathing vapors, mist or gas. Ensure adequate ventilation. Remove all sources of ignition. Evacuate personnel to safe areas. Beware of vapours accumulating to form explosive concentrations. Vapours can accumulate in low areas.

### 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

Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal.

### Reference to other sections

For disposal see section 13.

## 7 Handling and storage

### Precautions for safe handling

Avoid contact with skin and eyes. Avoid inhalation of vapour or mist.

Keep away from sources of ignition - No smoking. Take measures to prevent the build up of electrostatic charge.

### Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Recommended storage temperature: 2 - 8 °C

Moisture sensitive. Light sensitive.

### Specific end uses

no data available

## 8 Exposure controls/personal protection

### Control parameters

Components with workplace control parameters

### Exposure controls

#### Appropriate engineering controls

Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the product.

#### Personal protective equipment

##### Eye/face protection

Face shield and safety glasses Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

##### 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.

The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.

##### Body Protection

Complete suit protecting against chemicals, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

##### Respiratory protection

Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

## 9 Physical and chemical properties

### Information on basic physical and chemical properties

a) Appearance Form:	clear light yellow liquid
b) Odour:	no data available
c) OdourThreshold:	no data available
d) pH:	no data available
e) Melting point/freezing point:	-60 °C
f) Initial boiling point and boiling range:	205 - 209 °C
g) Flash point:	96 °C - closed cup
h) Evaporation rate:	no data available
i) Flammability (solid, gas):	no data available
j) Upper/lower flammability or explosive limits:	no data available
k) Vapour pressure:	0,066 hPa bij 20 °C
l) Vapour density:	no data available
m) Relative density:	1,066 g/cm <sup>3</sup> @ 25 °C
n) Water solubility:	no data available
o) Partition coefficient:	no data available
p) Auto-ignition temperature:	no data available
q) Decomposition temperature:	no data available

r) Viscosity: no data available  
s) Explosive properties: no data available  
t) Oxidizing properties: no data available  
**Other safety information**  
no data available

## 10 Stability and reactivity

### Reactivity

no data available

### Chemical stability

no data available

### Contains the following stabiliser(s):

Mequinol ( $\geq 180$  -  $\leq 220$  ppm)

### Possibility of hazardous reactions

no data available

### Conditions to avoid

Exposure to light. May polymerize on exposure to light.

### Incompatible materials

Strong acids, Strong bases, Strong oxidizing agents, Strong reducing agents

### Hazardous decomposition products

Other decomposition products - no data available

## 11 Toxicological information

### Acute toxicity

no data available

**Inhalation:** no data available

**Dermal:** no data available

### Skin corrosion/irritation

no data available

### Serious eye damage/eye irritation

no data available

### Respiratory or skin sensitization

no data available

### Germ cell mutagenicity

no data available

### Carcinogenicity

No data available

### Reproductive toxicity

no data available

### Specific target organ toxicity - single exposure

no data available

### Specific target organ toxicity - repeated exposure

no data available

### Aspiration hazard

no data available

### Potential health effects

**Inhalation** May be harmful if inhaled. Causes respiratory tract irritation.

**Ingestion** May be harmful if swallowed.

**Skin** May be harmful if absorbed through skin. Causes skin irritation.

**Eyes** Causes serious eye irritation.

**Additional Information**

RTECS: Not available

## 12 Ecological

**Toxicity**

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**

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

**Other adverse effects**

no data available

## 13 Disposal considerations

**Waste treatment methods**

This combustible material may be burned in a chemical incinerator equipped with an afterburner and scrubber. Offer surplus and non-recyclable solutions to a licensed disposal company.

**Contaminated packaging**

Dispose of as unused product.

## 14 Transport information

**UN number**

ADR/RID: -

IMDG: -

IATA: -

**UN proper shipping name**

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

**Transport hazard class(es)**

ADR/RID:

- IMDG: -

IATA: -

**Packaging group**

ADR/RID: -

IMDG: -

IATA: -

**Environmental hazards**

ADR/RID: no

IMDG Marine Pollutant: no

IATA: no

**Special precautions for user**

no data available

## Safety data sheet HPMA (Hydroxypropylmethacrylate)

according to 1907/2006/EC, Article 31

## 15 Regulatory information

- **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- **Labelling according to Regulation (EC) No 1272/2008**
- **Hazard pictograms** Please refer section 2.
- **Signal word** Please refer section 2.
- **Hazard-determining components of labeling:** Please refer section 2.
- **Hazard statements** Please refer section 2.
- **Precautionary statements** Please refer section 2.
- **Chemical safety assessment** Please refer section 2.
- **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

- √ **CHINA - China Inventory of Existing Chemical Substances (IECSC)**
- √ **TSCA - United States Inventory of Toxic Substances Control Act Chemical Substances (TSCA)**
- √ **ENCS - Japan Existing and New Chemical Substances (ENCS)**
- √ **EINECS - European Inventory of Existing Commercial Chemical Substances (EINECS)**

**Note:**

"√" Indicates that the substance included in the regulations

## 16 Other information

The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product.