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

· **Product identifier**

· **Tradename: 2-HPMA (Hydroxpropylmethacrylate)**
· **CAS-nummer:**
27813-02-1 ·
EG-nummer:
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-phrase(s)
R36Irritating to eyes
R43 May cause sensitization by skin contact.

3 Composition/information on ingredients

Substances
Formula : C7H12O3
Molecular Weight : 144,17 g/mol

Component	Classification	Concentration
methacrylic acid, monoester with propane-1,2-diol CAS-No. 27813-02-1 EC-No. 248-666-3	Eye Irrit. 2; H319 Skin Sens. 1; H317 Xi, R36/ R43	< 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 (NOx)
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 ℃
f) Initial boiling point and boiling range:	205 - 209 ℃
g) Flash point:	96 ℃ - 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 ℃
l) Vapour density:	no data available
m) Relative density:	1,066 g/cm3 @ 25 ℃
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 ((>=180 - <=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

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.