

# MATERIAL SAFETY DATA SHEET

## HPMA

### 1 Chemical Product & Company Information:

**ChemicalName:** Hydrolyzed Polymaleic Anhydride

**General Name:** HPMA

**CAS No.:** 26099-09-02

**Manufacture:** Shandong Taihe Water Treatment Co., Ltd.

**ADD:** Xiwangzhuang town, Shizhong district, Zaozhuang city, Shandong Province, China

**TEL:** 0086-632-5113066, 5113155, 3460157 3460159

**FAX:** 0086-632-3460156

### 2. Ingredient

**Main Ingredients:**HPMA,  $\geq 48\%$

### 3. HAZARDS IDENTIFICATION

The classification of endanger N/A

The way of endanger : Skin,eyes,mouth

Skin Contact: Avoid to contact with skin half the time .

Eye Contact : Stimulative !

Swallowed: Stimulative ! But without acute toxicity .

### 4 Emergency & First Aid Procedures:

Skin Contact: Remove and wash contaminated clothing promptly and wash skin with copious amounts of water.

Eye Contact: Flush with copious amounts of water for 15 min. If feel uncomfortabal seek medical help immediately.

Swallowed: Induce vomiting and seek medical help immediately .

### 5 Fire Fighting Measures

Flash Point : N/T

Explosion limits: N/T

Flammablility :None

Notice:Water or water spray to cool the vesssel. In the event of a fire, wear full protective clothing and self-contained breathing apparatus with full facepiece operated in the pressure demand.

Hazardous Decomposition Products: Carbon Monoxide , Carbon Dioxide and Sulfur

Dioxide.

## 6 Spills or Leak Procedures

**Personal protection:**Safety glasses, gloves, face protection etc.

**Steps if material is released or spilled:** Keep air ventilation , Keep away from kindling , absorb with an inert material (e.g., vermiculite, dry sand, earth), and place in a chemical waste container. Treatment as the environmental protection department's requirement, Do not flush to sewer!

## 7 Precautions in Handling & Storing:

**Notice:** Keep air ventilation, avoid to contact with skin and eyes.

**Storage :**Store in a cool ,dry and airiness place. Keep storage container tightly closed. Avoid to contact with strong acid, strong alkaline and strong oxidizers .

## 8 Personal Protection

**Ventilation System :** A system of local and/or general exhaust is recommended to keep employee exposures below the Airborne Exposure Limits. Local exhaust ventilation is generally preferred.

**Respiratory System Protection:** Avoid to inhalation the vapour or gas .

**Eye Protection:**Use chemical safety goggles.

**Protective Gloves:** Comman chemical resistant gloves .

**Other protection:** After work,bathe and change the clothes.

## 9 Physical and Chemical Data

**Appearance:** clear umber liquid

**Boiling point:** N/T

**Solid content:**48-52%

**PH Value(1%water solution):**2.0-3.0

**Water solubility:** Miscible with water with any proportion

**Flash point:** N/T

## 10 Stability and Reactivity Data

**Stablility:** yes

**Hazardous Polymerization:** NO.

**Condition to Avoid:** High temperature and frequent exposure.

**Materails to Avoid :** Strong acid , Strong alkaline , Strong oxidizers and Cation surface-active agent.

**Decomposition Products:** Water,Carbon Monoxide ,Carbon Dioxide etc. .

## **11 Toxicology Information**

**Without acute toxicity .**

**ORL-RAT LD50 5000 mg/ kg**

## **12 Ecological Information**

None.

## **13 Disposal Considerations**

**Disposal method :** Consult the local environmental protection department .

## **14 Transport Information**

**Packing Group:** III

## **15. REGULATORY INFORMATION**

None

## **16. OTHER INFORMATION**

Shandong Taihe Water Treatment Co.,Ltd believe that the information contained in each material safety data sheet ("MSDS"), technical data sheet ("TDS"), product information brochure and/or information contained herein (including data and statements) is accurate as of the date of publication.