



## **Material Safety Data Sheet**

### **1. IDENTIFICATION OF THE RPRODUCT AND THE COMPANY**

Product name: POLY(METHYLENE-CO-GUANIDINE), HYDROCHLORIDE  
Supplier: Unilong Industry Co.,Ltd.  
Address: No.2000 Shunhua Rd, High-Tech Zone, Jinan City, Shandong Province, China  
Emergency telephone number: +86 0531 55690071

### **2. COMPOSITION/INFORMATION ON INGREDIENTS**

Identification of the preparation: Cationic polymer in solution

Chemical name:	CAS No.	Weight
Guanidine, cyane polymer with ammonium chloride	55295 98-2	>50%
Water	7732-18-5	<50%

### **3. HAZARDS IDENTIFICATION**

The product contains no substances which at their given concentration are considered to be hazardous to health.

**Spills produce extremely slippery surfaces.**

### **4. FIRST AID MEASURES**

Inhalation: Move to fresh air.  
Skin contact: Remove and water contaminated clothing and gloves including the inside before re-use. Wash off immediately with plenty of water.  
Eye contact: Rinse immediately with plenty of water for at least 15 minutes.  
Ingestion: Rinse mouth with plenty of water. Do not induce vomiting,,call a physician immediately.

### **5. FIRE-FIGHTING MEASURES**

Suitable extinguishing media: Water spray foam, carbon dioxide and sand  
Special fire-fighting precautions: Spills produce extremely slippery surfaces.  
Special protective equipment for firefighters: Chemical protection suit, suitable gloves and boots, and self-contained breathing apparatus.

### **6. ACCIDENTAL RELEASE MEASURES**

Personal precautions: Keep people away from spill/leak.  
Environmental precautions: Do no contaminate water.  
Methods for cleaning up: Dam up. Soak up with inert absorbent material. If liquid has been spill in large quantities clean up promptly by scoop or vacuum. Keep in suitable and closed containers for disposal. After cleaning, flush away traces with water.

### **7. HANDLING AND STORAGE**



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Handling:	Avoid contact with skin, eyes and clothing. When preparing the working solution ensure there is adequate ventilation. Do not breath vapors or spray mist. When using do not smoke.
Storage:	Keep in a dry, cool place 10-30 °C . Keep away from heat and sources of ignition. Freezing will affect the physical condition and may damage the material.

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Engineering measures to reduce exposure:	Ensure adequate ventilation. Use local exhaust if misting occurs. Natural ventilation is adequate in absence of mists.
Personal protection equipment	
-Respiratory protection:	In case of insufficient ventilation wear suitable respiratory equipment.
-Hand protection:	PVC or other plastic material gloves.
-Eye protection:	Safety glasses with side-shields. Do not wear contact lenses.
-Skin and body protection:	Chemical resistant apron or protective suits if splashing or repeated contact with solution is likely.
Hygiene measures:	Wash hands and face before breaks and immediately after handling the product. When using do not eat drink or smoke. Handle in accordance with good industrial hygiene and safety practice.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

Form:	Colorless or light-color sticky liquid
Odour:	slight
PH:	2.0-5.0
Boiling point:	above 100°C
Water solubility:	completely miscible
Dry Weight %:	≥50
Rel. density at 20°C (g/cm <sup>3</sup> ):	1.20-1.30
Viscosity (cps, 20°C)	30-1000

## 10. STABILITY AND REACTIVITY

Stability:	Product is stable, no hazardous polymerization will occur.
Materials to avoid:	Oxidizing agents may cause exothermic reactions.
Hazardous decomposition products:	No decomposition if stored and applied as directed. Burning of the dried material can produce: Hydrogen chloride gas, nitrogen oxides, carbon oxides.

## 11. TOXICOLOGICAL INFORMATION

Acute toxicity:	
-Oral:	The product is not expected to be toxic
-Inhalation:	The product is not expected to be toxic.



## Irritation

- |                |  |
|----------------|--|
| - Skin:        | Prolonged skin contact may cause skin irritation.  |
| - Eyes:        | May cause eye irritation with susceptible persons. |
| Sensitization: | No data available.                                 |

## 12. ECOLOGICAL INFORMATION

### Ecotoxicity

- |                             |   |
|-----------------------------|---|
| -Fish                       | LC50/Brachydanio rerio/96h:1 > 10mg/l         |
| -Algae                      | EC50/Scenedesmus subspicatus/72h:1 > 10mg/l   |
| -Bioaccumulation:           | The product is not expected to bioaccumulate. |
| -Persistence/degradability: | Not readily biodegradable.                    |

## 13. DISPOSAL CONSIDERATIONS

- |                             |  |
|-----------------------------|--|
| Waste from residues/unused: | Dispose of as special waste in compliance with local and national regulations. |
| Contaminated packaging:     | Dispose of as special waste in compliance with local and national regulations. |

## 14. TRANSPORT INFORMATION

- Not classified as dangerous in the meaning of transport regulations.
- DOT: This substance is considered to be non-hazardous for transport.
- RID/ADR: This substance is considered to be non-hazardous for transport.
- IATA: This substance is considered to be non-hazardous for air transport.
- IMO: This substance is considered to be non-hazardous for sea transport.
- UN Number: None.
- IMDG Class: None

## 15. REGULATORY INFORMATION

The product is not a hazardous article and need not to be labeled according to EC-Directives as amended.

## 16. OTHER INFORMATION

**Notes: The information contained in this safety data sheet is given in good faith. It is accurate to the best of our knowledge and belief and represents the most up to date information. The information given in this data sheet does not constitute or replace the user's own assessment of workplace risk as required by other health and safety legislation.**