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Hefei TNJ Chemical Industry Co.,Ltd.

B910-911 Xincheng Business Center,

Qianshan Rd. Hefei 230022 China

Tel : (0086) 551 67199490

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: www.tnjchem.com

## Material Safety Data Sheet

### Polyacrylamide

#### Section 1: Chemical Product and Company Identification

##### 1.1 Product identifiers

**Product Name:** Polyacrylamide

**Synonyms:** Polyacryamide, Anionic Polyacrylamide, Acrylamide-acrylate-co-polymer, Anionic Polymer, PAM, APAM.

**Molecular formula:** C<sub>3</sub>H<sub>5</sub>NO

**CAS Nr:** 9003-05-8

**Molecular weight:** 71.0779

##### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Identified uses : Laboratory chemicals, Manufacture of substances

##### 1.3 Details of the supplier of the safety data sheet

**Hefei TNJ Chemical Industry Co.,Ltd.**

B911 Xincheng Business Center

Qianshan Road, Hefei

230004Anhui

China

Tel : (0086) 551 65418678

Fax: (0086) 551 65418697

Email: info@tnjchem.com

Site: [www.tnjchem.com](http://www.tnjchem.com)

**1.4 Contact Information for Emergency:** (0086) 551 65418678

#### Section 2: Hazards Identification

##### Potential Acute Health Effects

**Inhalation:** Inhalation of vapours, mists or dusts of the product may be irritating to the respiratory system. May irritate mouth, nose, and throat.

**Ingestion:** May cause irritation of the lining of the stomach.

**Skin:** Mild to Moderate irritation can occur. Prolonged or repeated contact may cause defatting and drying of the skin. Prolonged or repeated contact may cause discomfort and local redness.

**Eyes:** May cause eye irritation. May result in mild to moderate irritation to eyes.

#### Section 3: Composition and Information on Ingredients

Name:	CAS Number	% by Weight
Acrylamide	79-06-1	<0.05
Acrylamide-acrylate-co-polymer	9003-05-8	proprietary
Binders, dissolution additives	-	proprietary

**There are no additional ingredients present which, within the current knowledge of the supplier and in the concentrations applicable, are classified as hazardous to health or the environment and hence require reporting in this section.**

### Section 4: First Aid Measures

**Inhalation:** Remove person to fresh air. If not breathing, give artificial respiration. If breathing is difficult, get immediate medical attention.

**Skin contact:** In case of contact, rinse with soap and water. Remove contaminated clothing and launder before reuse.

**Eye Contact:** In case of contact, or suspected contact, immediately flush eyes with plenty of water for at least 15 minutes. Seek medical attention if irritation persists.

**Ingestion:** Do NOT induce vomiting. Never give anything by mouth to an unconscious or convulsing person. If vomiting occurs spontaneously, keep head below hips to prevent aspiration of liquid into the lungs.

**Notes to Physician:** Treatment based on sound judgement of physician and individual reactions of patient.

### Section 5: Firefighting measures

**Flash Point:** None.

**Flash Point Method:** Not applicable.

**Autoignition Temperature:** Not available.

**Flammable Limits in Air (%):** Not available.

**Extinguishing Media**

**Suitable:** Use an extinguishing media suitable for the surrounding fire.

**Not Suitable:** None known.

**Hazardous Thermal**

**Decomposition Products:** Carbon and Nitrogen Oxides.

**Special Protective**

**Equipment for Fire fighters** should wear full protective clothing, including self-contained breathing

**Fire-Fighters:** equipment.

**NFPA Ratings for this product are:** HEALTH 1 FLAMMABILITY 0 INSTABILITY 1

**HMIS Ratings for this product are:** HEALTH 1 FLAMMABILITY 0 REACTIVITY 1

### Section 6: ACCIDENTAL RELEASE MEASURES

**Personal precautions:** Wear appropriate protective equipment. Wet product and aqueous solutions of product are very slippery. Trace amounts of product on smooth surfaces can become extremely slippery when wet.

**Environmental Precautions:** Prevent entry of concentrated solutions into sewers or streams, dike if needed.

**Procedure for Clean-up:** Sweep or scoop dry material and place in appropriate container. Absorb aqueous solutions with a dry inert material, such as clay, and place in an appropriate waste disposal container. After most of the material has been cleaned-up clean the area with warm, soapy water.

## Section 7: HANDLING AND STORAGE

**Handling:** For industrial use only. Handle and open containers with care. Avoid contact with eyes, skin and clothing. Do not ingest. Keep the containers closed when not in use. Protect against physical damage. Use appropriate personnel protective equipment.

**Storage:** Store in a cool, dry area. Store in accordance with good industrial practices. Keep away from direct sunlight. Protect against physical damage.

## Section 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

### Personal Protection

**Respiratory:** A respirator should not be required when working with Water Lynx 398.

**Hands:** Use gloves appropriate for work or task being performed. Recommended: PVC, vinyl, or rubber.

**Eyes:** Safety eyewear should be used when there is a likelihood of exposure. Recommended: Chemical goggles; also wear a face shield if splashing hazard exists.

**Skin** Skin Contact should be prevented through the use of suitable protective clothing, gloves and footwear, selected for conditions of use and exposure potential. Consideration must be given both to durability as well as permeation resistance.

### Other Personal

**Protection Data:** Ensure that eyewash stations and safety showers are proximal to the work-station location.

**Engineering Controls:** Local exhaust ventilation as necessary to maintain exposure to within applicable limits.

## Section 9: Physical and Chemical Properties

**Physical State:** partially hydrated gel block

**Color:** White or off-white

**Odor:** Slightly Acidic

**pH:** ~7

**Specific Gravity:** ~1.1

**Boiling/Condensing Point:** Not available.

**Melting/Freezing Point:** Not available.

**Vapour Pressure:** Not available.

**Vapour Density:** Not available.

**% Volatile by Volume:** Not available.

**Evaporation Rate:** Not available.

**Solubility:** Completely soluble but dissolves very slowly.

**VOCs:** Not available.

**Viscosity:** Concentration dependant.

**Molecular Weight:** Not available.

**Other:** None

## Section 10: Stability and Reactivity

**Chemical Stability:** The product is stable.

**Hazardous Polymerization:** Will not occur.

**Conditions to Avoid:** High temperatures.

**Materials to Avoid:** Strong bases such as sodium hydroxide may cause the release of ammonia.

**Hazardous Decomposition Products:** At high temperatures carbon oxides and nitrogen oxides may be released upon decomposition.

**Additional Information:** No additional information.

## Section 11: Toxicological Information

### Principle Routes of Exposure

**Ingestion:** May cause irritation of the lining of the stomach.

**Skin contact:** Mild to moderate irritation can occur. Prolonged or repeated contact may cause defatting and drying of the skin. Prolonged or repeated contact may cause discomfort and local redness.

**Inhalation:** Inhalation of vapours, mists or dusts of the product may be irritating to the respiratory system. May irritate mouth, nose, and throat.

**Eye Contact:** May cause eye irritation. May result in mild to moderate irritation to eyes.

**Additional Information:** Prolonged and repeated contact with the skin can cause defatting and drying of the skin resulting in skin irritation and dermatitis.

### Acute Toxicity

**Acute Oral LD50:** Oral LD50 (Rat) > 5000 mg/kg

**Acute Dermal LD50:** Not available.

**Acute Inhalation LC50:** Not available.

### Carcinogenicity

Acrylamide is a suspected human carcinogen.

**Carcinogenicity Comment:** No additional information available.

**Reproductive Toxicity / Teratogenicity / Embryotoxicity / Mutagenicity:** Not available.

## Section 12: Ecological Information

### Aquatic Ecotoxicity

Based on testing of related granular product on Rainbow Trout (*Oncorhynchus mykiss*) toxicity is expected to be >450 mg/L.

### Other Information:

**Bioaccumulation:** The product is not expected to bioaccumulate.

**Persistence / Degradability:** Not readily biodegradable.

## Section 13: Disposal Considerations

**Disposal of Waste Method:** Disposal of all wastes must be done in accordance with municipal, provincial and federal regulations.

**Contaminated Packaging:** Empty containers should be recycled or disposed of through an approved waste management facility.

## Section 14: Transport Information

### 14.1 UN number

ADR/RID: -                      IMDG: -                      IATA: -

### 14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA: Not dangerous goods

### 14.3 Transport hazard class(es)

ADR/RID: -                      IMDG: -                      IATA: -

### 14.4 Packaging group

ADR/RID: -                      IMDG: -                      IATA: -

### 14.5 Environmental hazards

ADR/RID: no                      IMDG Marine pollutant: no                      IATA: no

### 14.6 Special precautions for user

no data available

## Section 15: Regulatory Information

This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

no data available

### 15.2 Chemical Safety Assessment

no data available

## Section 16: Other Information

### Further 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.