

# JIANGSU JIANGHAI CHEMICAL GROUP CO., LTD

## MATERIAL SAFETY DATA SHEET

### Section I — Product Identification

TRADE NAME: JH-102

NAME: Amino Tri(methylene phosphonic acid)

CAS #: 6419-19-8

EC #: 229-146-5

MF: C<sub>3</sub>H<sub>12</sub>NO<sub>9</sub>P<sub>3</sub>

SYNONYMS:

ATMP ● DEQUEST 2000 ● BRIQUEST 301-50A ● UNIHIB 305

### Section II — Component Data

#### Phosphorous Acid

Phosphorous acid is considered to be slightly toxic following oral administration to rats and dermal administration to rabbit. It is corrosive to eyes and skin and, thus, may contribute to the irritation potential of JH-102. Phosphorous acid produced no genetic changes in standard tests using bacteria.

Hydrochloric acid, chemical abstracts registry number 7647-01-0

#### Addition Information

Amino Tri(methylene phosphonic acid) (ATMP), the active acid in JH-102. May be harmful by inhalation. Ingestion, or skin absorption.

ATMP is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin. To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated. For additional toxicity information relative to these uses, please refer to the appropriate scientific literature.

### Section III — Precautions for Safe Handling and Storage

Do not get in eyes, on skin or clothing. Avoid breathing vapor or mist. Keep container closed. Use with adequate ventilation. Wash thoroughly after handling. Emptied container retains vapor and product residue. Observe all labeled safeguards until container is cleaned, reconditioned or destroyed. Store in a cool dry place

### Section IV — Physical Data

Appearance: White powder  
Odor: Faint  
Phosphorous acid (as  $\text{PO}_3^{3-}$ ): 4.5 % Max.  
Chloride (as  $\text{CL}^-$ ): 1.0 % Max.  
pH (1% water solution): 2.0 Max.  
Iron: 35 ppm Max.

## **Section V — Personal Protective Equipment Requirements**

Wear appropriate NIOSH/MSHA-APPROVED respirator, chemical-resistant gloves, safety goggles, other protective clothing. Safety shower and eye bath. Mechanical exhaust required

## **Section VI — Fire and Explosion Hazard Information**

Although this material does not meet the parameters for flammability, it will burn in the presence of a strong ignition source after the water is removed.

Extinguish Media: Water spray, dry chemical,  $\text{CO}_2$ , or other Class B extinguishing agent.

Special Firefighting Procedures: When is involved in a fire, firefighters or others should wear full protective clothing and self-contained breathing apparatus exposed to vapors or products of combustion. All fire fighting equipment, including protective clothing and self-contained breathing apparatus, needs to be decontaminated after use.

Explosion hazard does not occur

## **Section VII — Reactivity Information**

Material to Avoid: Avoid contact with concentrated caustic. Contact will result in the evolution of heat. Also, avoid contact with strong oxidizing agents.

Hazardous Decomposition Products: Phosphines may form after all the water had been removed.  $\text{CO}$ ,  $\text{CO}_2$ , Phosphorous Oxides, Hydrogen Chloride gas and Oxides of Nitrogen may also be formed.

Hazardous Polymerization: not occur

## **Section VIII — First Aid**

If in eyes, immediately flush with plenty of water for at least 15 minutes. Assure adequate flushing of the eyes by separating the eyelids with fingers. Get medical attention.

If swallowed, wash out mouth with water provided person is conscious. Call a physician

If inhaled, remove to fresh air. If not breathing give artificial respiration. If breathing is difficult. Give oxygen.  
In case of contact, immediately wash skin with soap and copious amounts of water.  
Wash contaminated clothing before reuse.  
Discard contaminated shoes.

## **Section IX — Toxicology and Health Information**

Corrosive Liquid, N.O.S.

DOT label: Corrosive

U.S. Surface Freight Classification: Wash Compound, N.O.I.B.N., Liquid

**WARNING STATEMENTS: DANGER, CAUSE EYE BURNS, CORROSIVE TO MILD STEEL**

Toxicological Information:

Acute Effects

May be harmful by inhalation. Ingestion, or skin absorption.

Material is extremely destructive to tissue of the mucous membranes and upper respiratory tract, eyes and skin.

Inhalation may result in spasm, inflammation and edema of the larynx and bronchi, chemical pneumonitis and pulmonary edema.

Symptoms of exposure may include burning sensation, coughing, wheezing, laryngitis, shortness of breath, headache, nausea and vomiting.

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

## **Section X — Transportation Information**

Amino Tri(methylene phosphonic acid)

corrosive liquid, acidic, organic, N.A.G

ADR/RID-GGVS/E classification: 8/40c

Packing group: III

UN/ID -No.: 3265

IMDG/GGV Sea-classification: 8, page 8147-1/III

EMS-No.: 8-15

MFAG: 760

ICAO/IATA-classification: 8

Contact **JIANGSU JIANGHAI CHEMICAL CO.,LTD** for transportation information

## **Section XI — Spill and Leak Procedures**

Emergency Spill and Leak Information: When handling spills and leaks, follow good industrial

hygiene and safety practiced and outlined in the Precautionary Measures and Emergency and First Aid Procedures section of this DOCUMENT. Contain spills and leaks to prevent discharge to the environment. Absorb spillage with clay, sawdust or other absorbent material. Place all spilled material, contaminated sorbent materials, contaminated dirt, and other contaminated material in drums. If possible, it is also acceptable to contain spilled material and recover it as a liquid prior to disposal. Keep concentrated product out of sewers, watersheds and water systems.

## **Section XII — Waste Disposal**

Disposal Information: Dispose of in accordance with all applicable local, state and federal regulation. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber.

## **Section XIII — 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 **JIANGSU JIANGHAI CHEMICALGROUP CO.,LTD** shall not be held liable for any damage resulting from handling or from contact with the above product. Any additional terms and conditions should be discussed in the sales contract.