



# MSDS

## MATERIAL SAFETY DATA SHEET

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No. 13, Daxiang Street, Xinshuikeng Village, Dalong Street, Panyu  
District, Guangzhou

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## Section 1-Chemical Product and Company Identification

**Product:** Total Hardness Reagent A

**Common name:** Total Hardness Reagent A

**Modle:** N/A

**Mark :** N/A

**Manufacture:** Guangzhou Jubway technology co.,ltd

**Address:** No. 13, Daxiang Street, Xinshuikeng Village, Dalong Street, Panyu District, Guangzhou

**Post Code:** /

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## Section 2- Composition/Information on Ingredient

Chemical Name	Molecular formula	CAS No.	In % By Weight
Water	H <sub>2</sub> O	7732-18-5	50
Ammonium hydroxide	H <sub>5</sub> NO	1336-21-6	50

## Section 3- Hazards Identification

**Fatalness:** This substance has a slightly harmful effect on water. Triethanolamine is irritating to the eyes, but weaker than monoethanolamine and irritating to the skin.

**Invasion route:**

**Skin touch:** Remove contaminated clothing and rinse thoroughly with plenty of fresh water.

**Eye touch:** Immediately open the upper and lower eyelids, rinse with flowing water or normal saline. Go to a doctor.

**Inhalation:** Detached from the scene to fresh air. Go to a doctor.

**Ingestion:** Those who mistaken themselves gargle, drink milk or egg white, and seek medical advice.

**Health hazards:** Exposure to high heat, open flames or contact with oxidizing agents can cause the danger of burning.



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## Section 4- First Aid Measures

### 4.1 Description of necessary first aid measures

**Skin touch:** Get medical aid. Flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

**Eyes touch:** Flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical aid immediately.

**Ingestion:** If inhaled, move the patient to fresh air. If breathing stops, perform artificial respiration.

**Eat:** Do not feed anything to the unconscious through the mouth. Rinse your mouth with water.

### 4.2 major symptoms and effects, acute and late effects

Cough, shortness of breath, headache, nausea, vomiting

### 4.3 prompt medical treatment and instructions for special treatment required

Database

## Section 5- Fire Fighting Measures

### 5.1 extinguishing medium

Extinguishing method and extinguishing agent

Extinguish with water mist, ethanol foam, dry powder or carbon dioxide.

### 5.2 special hazards arising from this substance or mixture

Carbon oxides, nitrogen oxides, hydrogen chloride gases

### 5.3 advice for firefighters

If necessary, wear a self-contained breathing apparatus.

### 5.4 further information

Data base

## Section 6- Accidental Release Measures

### 6.1 protection measures, protective equipment and emergency procedures for operators.

Use personal protective equipment. Avoid inhaling steam, smoke or gas. Ensure adequate ventilation.



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## 6.2 Environmental protection measures.

Don't let the product go down the drain.

## 6.3 Receiving, cleaning and disposal materials for the leakage of chemicals.

Absorb and treat as hazardous waste with inert adsorption materials. Put in the appropriate closed container for disposal.

## 6.4 Refer to other parts.

See section 13 for discarding processing.

## Section 7- Handling and Storage

### 7.1 Precautions for safe operation.

Closed operation, pay attention to ventilation. Operators must be specially trained to strictly follow operating procedures. Operators are advised to wear self-filtering dust respirator, chemical safety protective glasses, infiltration protective overalls and rubber gloves. Keep away from fire and heat. Smoking is prohibited in the workplace. Use explosion-proof ventilation systems and equipment. Avoid contact with oxidants and acids. Handle with care to prevent damage to packaging and containers. Equipped with the corresponding variety and quantity of fire equipment and emergency leakage treatment equipment. An empty container may contain harmful residue.

### 7.2 Conditions for safe storage, including any incompatibility.

Store in a cool and ventilated warehouse. Stay away from fire and heat. Should be stored separately with oxidizer, acid, do not mix storage. Equipped with the corresponding variety and quantity of fire equipment. The storage area should be equipped with emergency leakage treatment equipment and appropriate shelter materials.

### 7.3 Specific USES

Uncountable data

## Section 8- Exposure Controls, Personal Protection

8.1 Permissible concentration

Maximum permissible concentration



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There are no known national limits on exposure.

## 8.2 Exposure control

### 8.2.1 Proper technical control

8.2.2 Routine industrial hygiene operations.

### 8.2.3 Personal protective equipment

#### 8.2.3.1 Eye/face protection

Use equipment approved by official standards such as NIOSH (us) or EN 166(eu) for eye protection.

#### 8.2.3.2 Skin protection

Gloves must be checked before use.

Please use proper method to remove gloves (do not touch the outer surface of gloves) and avoid any skin contact with this product.

After use, please carefully handle the contaminated gloves according to relevant laws and regulations and effective laboratory regulations and procedures. Please clean and blow dry your hands

The protective gloves selected must comply with the 89/686/EEC regulations of the EU and the EN 376 standard derived from it..

#### 8.2.3.3 The body protection

Choose physical protection measures based on the type, concentration and amount of hazardous substances, as well as the specific workplace.,

The type of protective equipment must be selected based on the concentration and amount of hazardous materials in a particular workplace.

#### 8.2.3.4 Respiratory protection

You don't need to protect your breath. To protect against dust damage, use a type N95 (US) or type P1 (EN 143) dust mask.

Respirators use respirators and parts that have been tested and passed government standards such as NIOSH (US) or CEN (EU).

## Section 9- Physical and Chemical Properties



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**Physical State:** Transparent

**Color:** Black

**Odor:** N/A

**DpH:** No data

**Melting point/freezing point:** no data

**Boiling point, initial boiling point and boiling range:** No data

**Flash point:** No data

**Evaporation rate:** no data

**High/low flammability or explosive limits:** no data

**Vapor pressure:** no data

**Vapor density:** no data

**Density/relative density:** no data

**Water soluble:** no data

**n-octanol/water distribution coefficient:** no data

**Self-ignition temperature:** no data

**Decomposition temperature:** no data

**Viscosity:** no data

## Section 10- Stability and reactivity

**Stability:** Stability during normal conditions.

**Reactivity:** It presents no significant reactivity hazards.

**Avoid material:** Avoid contact with oxidants, fire, heat source.

**Avoid contact with conditions:** No data available

**Aggregate hazard:** No data available

## Section 11- Toxicological information

Corrosion or irritation to the skin. Severe eye injury/eye irritation.



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## Section 12- Ecological Information

12.1 Ecological toxicity: No data

12.2 durability and degradation: No data

12.3 potential bioaccumulation: No data

12.4 Migration of soil: No data

12.5 Other adverse effects: No data

## Section 13- Disposal Considerations

### 13.1 Waste treatment method

product: Transfer the remaining and non-recyclable solution to a licensed company.

Contaminated containers and packaging: Dispose of unused products.

## Section 14 – Transport Information

### 14.1 United Nations dangerous goods code

European land transport regulations: - international maritime transport regulations: - international air transport regulations: -

### 14.2 United Nations shipping name

Euroland dangerous goods: non-dangerous goods

International maritime dangerous regulations: non-dangerous goods

International air dangerous regulations: non - dangerous goods

**14.3 Type of transport hazard** European land transport regulations: - international maritime transport regulations: - international air transport regulations: -

### 14.4 Package group

European land transport regulations: - international maritime transport regulations: - international air transport regulations: -

### 14.5 Environmental hazards

European land transport danger rule: No



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international maritime transport regulations: No

international air transport regulations: No

Marine contaminants (yes/no) : No

## Section 15- Regulatory information

**Regulatory Information:** EU regulations ((post) label)

According to the preparation method classification guidelines (1999/45/EC)

According to EC classification and labelling guidelines.

## Section 16- Other Information

The above information is based on the data of which we are aware and is believed to be correct as of the data hereof. Since this information may be applied under conditions beyond our control and with which may be unfamiliar and since data made available subsequent to the data hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon condition that the person receiving it shall make his own determination of the suitability of the material for his particular purpose.





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