

## MATERIAL SAFETY DATA SHEET 物质安全数据单

# Tetra Acetyl Ethylene Diamine

### 1. Chemical Product and Supplier Identification

#### Product Name

☞ Tetra Acetyl Ethylene Diamine

#### Synonyms

☞ TAED

#### Manufacturer

- ☞ Shangyu Jiehua Chemical Co., Ltd.
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#### MSDS Number

☞ JHTAED-01-01

#### Effective Date

☞ January 1, 2003

### 2. Composition/Information on Ingredients

Ingredients	Chemical Formula	CAS No.	Percentage
Tetra Acetyl Ethylene Diamine	$C_{10}H_{16}O_4N_2$	10543-57-4	92~94

### 3. Hazards Identification

#### Potential Health Effects

- ☞ Inhalation..... May cause nose, throat, and respiratory irritation.
- ☞ Eye contact..... May cause irritation.
- ☞ Skin contact..... May cause skin irritation.
- ☞ Ingestion..... May cause irritation of the digestive tract.

### 4. First-aid Measures

- ☞ Inhalation..... Remove affected person to fresh air. Seek medical attention if effects persist.
- ☞ Eye contact..... Flush eyes with running water for at least 15 minutes with eyelids held open. Seek specialist advice.
- ☞ Skin contact..... Wash affected skin with soap and mild detergent and large amounts of water.
- ☞ Ingestion..... If the person is conscious and not convulsing, give 2-4 cupfuls of water to dilute the chemical and seek medical attention immediately. Do not inducing vomiting.

### 5. Fire Fighting Measure

#### Flash Point

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- ☞ Not applicable

### Flammability

- ☞ Not applicable

### Ignition Temperature

- ☞ Not applicable

### Danger of Explosion

- ☞ Non-explosive

### Extinguishing Media

- ☞ Water, Carbon Dioxide

### Fire Hazards

- ☞ Will burn to give acetic acid and cyclic amine tars initially. Further heating or combustion will give carbon dioxide and nitrogen oxide.

### Fire-Fighting Measures

- ☞ Evacuate all non-essential personnel
- ☞ Wear protective clothing and self-contained breathing apparatus
- ☞ Remain upwind of fire to avoid hazardous vapors and decomposition products
- ☞ Use water spray to cool fire-exposed containers

## 6. Accidental Release Measures

### Spill Clean-up Procedures

- ☞ Eliminate all sources of ignition. Evacuate unprotected personnel from equipment recommendations found in Section 8. Never exceed any occupational exposure limit.
- ☞ Sweep up material and place in a disposal container.
- ☞ Flush remaining area with water to remove trace residue and dispose of properly. Notify authorities if entry occurs.

## 7. Handling and Storage

### Storage

- ☞ Store in a cool, dry, well ventilated area away from all source of ignition and out of direct sunlight.
- ☞ Keep away from incompatible materials. Keep containers tightly closed. Do not store in unlabeled or mislabeled containers. Never return unused product to storage container.
- ☞ Protect from moisture. Keep containers well sealed.

### Handling

- ☞ Avoid contact with eyes, skin.. Use with adequate ventilation.
- ☞ Do not swallow. Avoid breathing vapors, mists, or dust. Do not eat, drink, or smoke in work area.
- ☞ Prevent contact with combustible or organic materials.
- ☞ Label containers and keep them tightly closed when not in use.
- ☞ Wash thoroughly after handling.

## 8. Exposure Controls/Personal Protection

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### Engineering Controls

- ☞ General room ventilation is required. Local exhaust ventilation, process enclosures or other engineers controls may be needed to maintain airborne levels below recommended exposure limits. Avoid creating dust or mist. Maintain adequate ventilation. Do not use in closed or confined spaces. Keep levels below exposure limits. To determine exposure levels, monitoring should be performed regularly.

### Respiratory Protection

- ☞ For many conditions, no respiratory protection may be needed; however, in dusty or unknown atmospheres or when exposures exceed limit values, wear a NIOSH approved respirator.

### Eye/Face Protection

- ☞ Wear chemical safety goggles and a full face shield while handling this product.

### Skin Protection

- ☞ Prevent contact with this product. Wear gloves and protective clothing depending on condition of use.

### Other Protective Equipment

- ☞ Eye-wash station
- ☞ Safety shower
- ☞ Impervious clothing
- ☞ Rubber boots

### General Hygiene Considerations

- ☞ Wash with soap and water before meal times and at the end of each work shift. Good manufacturing practices require gross amounts of any chemical be removed from skin as soon as practical, especially before eating or smoking.

## 9. Physical and Chemical Properties

Appearance:	White or color granules
Odor:	Weak acetic odor
Bulk Density:	420~750 g/L
PH, 3% Solution:	5
Solubility:	Not available
Auto Ignition Temperature:	425°C

## 10. Stability and Reactivity

### Stability

- ☞ Stable at normal storage and handling conditions.

### Conditions to Avoid

- ☞ Acids
- ☞ Strong alkalis
- ☞ Strong oxidizing agents

### Hazardous Decomposition Products

- ☞ None

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### 11. Toxicological Information

- ☞ LD50 Oral: Min. 2000 mg/kg, rat
- ☞ LD50 Dermal: No data available
- ☞ LD50 Inhalation: No data available

### 12. Ecological Information

- ☞ COD value: 940MGO2/G(discharge method)
- ☞ Biodegradability under OECD guidelines: classified as ultimately biodegradable

### 13. Disposal Considerations

#### Waste Treatment

- ☞ Dispose of in an approved waste facility operated by an authorized contractor in compliance with local regulations.

#### Package Treatment

- ☞ The empty and clean containers are to be recycled or disposed of in conformity with local regulations.

### 14. Transport Information

- ☞ Proper Shipping Name: Tetra Acetyl Ethylene Diamine
- ☞ UN Number: Not applicable
- ☞ Hazard Class: Not regulated
- ☞ Labels: No information available
- ☞ Packing Group: 0

### 15. Regulatory Information

SARA Section.....	No
SARA (313) Chemicals.....	No
EPA TSCA Inventory.....	No
Canadian WHMIS Classification.....	D2B
Canadian DSL.....	Appears
EINECS Inventory.....	No

### 16. Other Information

#### Disclaimer

- ☞ The data in this Material Safety Data Sheet is believed to be correct. However, since conditions of use are outside our control it should not taken as a warranty of representation for which Shangyu Jiehua Chemical Co., Ltd. assumes legal responsibility. This information is provided solely for your consideration, investigation, and verification.