



## MATERIAL SAFETY DATA SHEET

### 1. PRODUCT AND COMPANY IDENTIFICATION:

**PRODUCT CODE** A0065  
**PRODUCT NAME** FERULIC ACID  
**SUPPLIER** Shanghai M & U International Trade Co., Ltd.  
Rm 1717, No 598 North NuJiang Road  
200333 Shanghai, China  
+86-21-32515501 32515502  
sales@mu-intel.com

**FOR EMERGENCIES CALL CHEMTREC: 800-424-9300 (24-HOURS)**

### 2. HAZARD IDENTIFICATION:

#### Emergency Overview

#### OSHA Hazards

Irritant

#### HMIS Classification

|                     |   |
|---------------------|---|
| Health hazard       | 2 |
| Fire Hazard         | 1 |
| Reactivity          | 0 |
| Personal Protection | E |

#### NFPA Rating

|               |   |
|---------------|---|
| Health hazard | 2 |
| Flammability  | 1 |
| Reactivity    | 0 |

#### Potential Health Effects

|            |  |
|------------|--|
| Inhalation | May be harmful if inhaled. May cause respiratory tract irritation  |
| Skin       | May be harmful if absorbed through skin. May cause skin irritation |
| Eyes       | May cause eye irritation   |
| Ingestion  | May be harmful if swallowed  |

### 3. COMPOSITION AND INFORMATION ON INGREDIENTS:

|                  |  |
|------------------|--|
| Formula          | C <sub>10</sub> H <sub>10</sub> O <sub>4</sub> |
| Molecular Weight | 194.19 g/mol                                   |

|          |           |
|----------|-----------|
| CAS. No  | EC. No    |
| 537-98-4 | 208-679-7 |

#### 4. FIRST-AID GUIDE:

##### **Eyes Contact**

Check for and remove any contact lenses. Immediately flush eyes with running water for at least 15 minutes, keeping eyelids open. Cold water may be used. Do not use an eye ointment. Seek medical attention

##### **Skin Contact**

After contact with skin, wash immediately with plenty of water. Gently and thoroughly wash the contaminated skin with running water and non-abrasive soap. Be particularly careful to clean folds, crevices, creases and groin. Cold water may be used. Cover the irritated skin with an emollient. If irritation persists, seek medical attention. Wash contaminated clothing before reusing

##### **Ingestion**

Do not induce vomiting. Loosen tight clothing such as a collar, tie, belt or waistband. If the victim is not breathing, perform mouth-to-mouth resuscitation. Seek immediate medical attention

##### **Additional Information**

##### **Note to physician**

Treat symptomatically

#### 5. FIRE-FIGHTING GUIDE:

##### **Flammability of the Product**

This product may be combustible at high temperature

##### **Flash Points**

303.00 °F

##### **Products of Combustion**

These products are carbon oxides (CO, CO<sub>2</sub>)

##### **Fire Fighting Media and Instructions**

##### **Small fire**

Use DRY chemical powder

##### **Large fire**

Use water spray, fog or foam. Do not use water jet

#### 6. ACCIDENTAL RELEASE GUIDE:

##### **Small spill**

Use appropriate tools to put the spilled solid in a convenient waste disposal container. If necessary: Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and dispose of according to local and regional authority requirements

##### **Large Spill**

Use a shovel to put the material into a convenient waste disposal container. Neutralize the residue with a dilute solution of sodium carbonate. Finish cleaning by spreading water on the contaminated surface and allow evacuating through the sanitary system

## 7. HANDLING AND STORAGE:

### Precautions for safe handling

Provide appropriate exhaust ventilation at places where dust is formed. Normal measures for preventive fire protection

### Conditions for safe storage

Keep container tightly closed in a dry and well-ventilated place. Keep in a dry place

## 8. EXPOSURE AND PERSONAL PROTECTION:

### Engineering Controls

Use process enclosures, local exhaust ventilation, or other engineering controls to keep airborne levels below recommended exposure limits. If user operations generate dust, fume or mist, use ventilation to keep exposure to airborne contaminants below the exposure limit

### Personal Protection

Splash goggles, lab coat, dust respirator, and gloves. Be sure to use an approved/certified respirator or equivalent

### Personal Protection in Case of a Large Spill

Splash goggles, full suit, dust respirator, boots, gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product

### Exposure Limits

Not available

## 9. PHYSICAL AND CHEMICAL PROPERTIES:

### Appearance

|                     |                       |
|---------------------|-----------------------|
| Form                | Crystalline Powder    |
| Color               | Off white to yellow   |
| Odor                | Characteristic        |
| Boiling Point       | 372-373°C             |
| Melting Point       | 168-175°C             |
| Solubility in water | Soluble in cold water |

## 10. STABILITY AND REACTIVITY:

### Stability

Product is stable under recommended storage conditions

### Materials to avoid

Strong oxidizing agents, strong reducing agents, strong bases

### Hazardous decomposition products

Hazardous decomposition products formed under fire conditions- Carbon oxides.

### Polymerization

No.

## 11. TOXICOLOGICAL INFORMATION:

### Acute toxicity

LD50 Intraperitoneal - mouse - > 194 mg/kg

### Chronic exposure

#### IARC

No component of this product is present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC

#### ACGIH

No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by ACGIH

#### NTP

No component of this product is present at levels greater than or equal to 0.1% is identified as a known or anticipated carcinogen by NTP

#### OSHA

No component of this product is present at levels greater than or equal to 0.1% is identified as a carcinogen or potential carcinogen by OSHA

**Genotoxicity in vitro** Hamster - ovary

**Cytogenetic analysis**

**Reproductive toxicity** Mammal - Oral

**Maternal Effects** Uterus, cervix, vagina

### Potential health effects

Inhalation May be harmful if inhaled. May cause respiratory tract irritation.

Ingestion May be harmful if swallowed.

Skin May be harmful if absorbed through skin. May cause skin irritation.

Eyes May cause eye irritation.

### Additional Information

RTECS: GD9275000

## 12. ECOLOGICAL INFORMATION:

### Products of Biodegradation

Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise

### Toxicity of the Products of Biodegradation

The product itself and its products of degradation are not toxic

## 13. DISPOSAL RECOMMENDATIONS:

### Product

Offer surplus and non-recyclable solutions to a licensed disposal company

### Contaminated packaging

Dispose of as unused product

#### **14. TRANSPORTATION INFORMATION:**

##### **DOT (US)**

Not dangerous goods

##### **IMDG**

Not dangerous goods

##### **IATA**

Not dangerous goods

#### **15. REGULATORY INFORMATION:**

##### **Federal and State Regulations**

TSCA 8(b) inventory: trans-Ferulic Acid

##### **Other Regulations**

EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances

##### **Other Classifications**

##### **WHMIS (Canada)**

Not controlled under WHMIS (Canada)

##### **DSCL (EEC)**

R36/38- Irritating to eyes and skin. S24/25- Avoid contact with skin and eyes. S28- After contact with skin, wash immediately with plenty of [\*\*\*] S37- Wear suitable gloves. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

##### **Protective Equipment**

Gloves, lab coat, dust respirator, splash goggles. Be sure to use an approved/certified respirator or equivalent

#### **16. OTHER INFORMATION:**

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