Section 1 - Identification of Substance and Company

Product Name: Ferulic Acid  
Generic Name: Ferulic Acid  
Supplier: BulkActives  
P.O Box 38-76  
Keelung City 20299  
Taiwan  
email: info@bulkactives.com

Emergency Phone Numbers: CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300  
International CHEMTREC, call: 1-703-527-3887

Section 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.

Section 3 – Information on Ingredients

<table>
<thead>
<tr>
<th>INCI Name</th>
<th>CAS Number</th>
<th>EINECS</th>
</tr>
</thead>
<tbody>
<tr>
<td>4-hydroxy-3-methoxycinnamic acid</td>
<td>1135-24-6</td>
<td>214-490-0</td>
</tr>
</tbody>
</table>

Section 4 - First Aid Measures

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.

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**Section 5 - Explosion and Fire-Fighting Measures**

- **Flammability of the Product**: May be combustible at high temperature.
- **Auto-Ignition Temperature**: Not available.
- **Flash Points**: Not available.
- **Flammable Limits**: Not available.
- **Products of Combustion**: These products are carbon oxides (CO, CO2).
- **Fire Hazards in Presence of Various Substances**: Not available.
- **Explosion Hazards in Presence of Various Substances**:
  - Risks of explosion of the product in presence of mechanical impact: Not available.
  - Risks of explosion of the product in presence of static discharge: Not available.
- **Fire Fighting Media and Instructions**:
  - **SMALL FIRE**: Use DRY chemical powder. LARGE FIRE: Use water spray, fog or foam. Do not use water jet.
- **Special Remarks on Fire Hazards**: Not available.
- **Special Remarks on Explosion Hazards**: Not available.

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**Section 6 - Accidental Release/Spill Procedures**

- **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 to evacuate through the sanitary system.
Section 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.

Section 8 - 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. Be sure to use an approved/certified respirator or equivalent. Gloves.

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.

Section 9 - Physical and Chemical Properties

Appearance

- **Form**: Crystalline Powder
- **Color**: Off white to yellow
- **Odor**: Characteristic
- **pH**: no data available
- **Boiling Point**: no data available
- **Melting Point**: 170-175°C
- **Critical Temperature**: Not available.
- **Specific Gravity**: Not available.
- **Vapor Pressure**: Not applicable.
- **Vapor Density**: Not available.
Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Solubility in water: Soluble in cold water

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**Section 10 - Stability and Reactivity**

**Stability**: Stable under recommended storage conditions.

**Instability Temperature**: Not available.

**Materials to avoid**: Strong oxidizing agents, strong reducing agents, strong bases.

**Hazardous decomposition products**

Hazardous decomposition products formed under fire conditions. - Carbon oxides.

**Incompatibility with various substances**: Not available.

**Special Remarks on Reactivity**: Not available.

**Special Remarks on Corrosivity**: Not available.

**Polymerization**: No.

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**Section 11 - Toxicological Information**

**Acute toxicity**

LD50 Intraperitoneal - mouse - > 194 mg/kg

**Irritation and corrosion** no data

Available **Sensitisation**

No data available

**Chronic exposure**

**IARC**: No component of this product 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 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 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 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

Section 12 - Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

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.

Special Remarks on the Products of Biodegradation: Not available.

Section 13 - Disposal Considerations

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

Contaminated packaging
Dispose of as unused product.

Section 14 - Transport Information

DOT (US)
Not dangerous goods

IMDG
Not dangerous goods

IATA
Not dangerous goods

Section 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. Be sure to use an approved/certified respirator or equivalent. Splash goggles.

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### Section 16 - Other Information

Prepared By: JS  
Revision Date: 05/14

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