

SAFETY DATA SHEET

according to Regulation (EC) No.1907/2006

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Material Safety Data Sheet Ferulic Acid msds

Section 1: Identification of the Substance/Preparation and of the Company/Undertaking

Identification of the substance or preparation

Product Name: 4-hydroxy-3-methoxycinnamic acid

INCI Name : Ferulic Acid

Synonym : 3-Methoxy-4-hydroxy-cinnamic acid; 3-(4-Hydroxy-3-methoxyphenyl)acrylic acid

CAS# : 1135-24-6 **EINECS** : 214-490-0

Company/undertaking identification

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Section 2: Hazards 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

InhalationMay be harmful if inhaled. May cause respiratory tract irritation.SkinMay be harmful if absorbed through skin. May cause skin irritation.



Eyes May cause eye irritation.

Ingestion May be harmful if swallowed.

Section 3: Composition and Information on Ingredients

Synonyms : 3-Methoxy-4-hydroxy-cinnamic acid

Formula : C10H10O4 Molecular Weight : 194.19 g/mol

CAS-No.	EC-No.	Concentration (%)
4-hydroxy-3-methoxycinnamic acid		
1135-24-6	214-490-0	100

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 Note to physician: Treat symptomatically.

Information

Section 5: Fire Fighting Measures

Flammability of the Product: M ay 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.

Section 6: Accidental Release Measures

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: Exposure Controls/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

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

Hazardour 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.

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.

Section 16: Other Information

Other Special Considerations: Not available.

Disclaimer

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