



Safety Data Sheet

For Compliance with OSHA 29 CFR 1910.1200 and ANSI Z400.1-1998

Ferulic Acid

30-3845

Section 1: Identification

Product Name Ferulic Acid

Commercial Name MacDerma (TM) FA

Product Use Antioxidant

Restrictions On Use Not available.

Product Code 30-3845

Company PCCA
9901 South Wilcrest
Houston, TX 77099
Phone: 1-800-331-2498
Fax: 1-800-874-5760

In case of emergency contact:

CHEMTREC (24hr) 1-800-424-9300

Section 2: Hazard(s) Identification

OSHA Haz Com: Skin corrosion/irritation, Category 2 Serious eye damage/eye irritation, Category 2 Specific Target Organ

CFR 1910.1200 Toxicity (single exposure), Category 3

Signal Word WARNING

Hazard Statement(s) Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.

Pictogram(s) or Symbol(s)



Precautionary Statement(s):

Prevention	P261: Avoid breathing dust/fume/gas/vapors/spray. P264: Wash hands thoroughly after handling. P280: Wear protective gloves/protective clothing/eye protection/face protection.
Response	P302+P352: If on skin, wash with plenty of soap and water. P304+P340: If inhaled, remove victim to fresh air and keep at rest in a position comfortable for breathing. P305+P351+P338: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P312: Call a POISON CENTER or doctor/physician if you feel unwell. P332 + P313: If skin irritation occurs: Get medical advice/ attention. P337 + P313: If eye irritation persists: Get medical advice/attention. P362: Take off contaminated clothing and wash before reuse.
Storage	Not available.
Disposal	Not available.

Section 3: Composition/Information on Ingredients

Substance/Mixture Substance

Components Ferulic Acid

% By Weight 100

CAS# 1135-24-6

Molecular Weight 194.19 g/mole

Chemical Formula C10-H10-O4

Synonym(s) 4 - Hydroxy- 3 - methoxycinnamic Acid ;3-(4-Hydroxy-3-methoxyphenyl)-2-propenoic Acid; Ferulic Acid; Cinnamic acid

Mixtures

Name	CAS#	% by Weight	TLV/PEL	LC50/LD50
Ferulic Acid	1135-24-6	100	Not available	Not available



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Section 4: First-Aid Measures

Inhalation	Remove to fresh air. If not breathing, give artificial respiration or give oxygen by trained personnel. Get immediate medical attention.
Skin Contact	Immediately wash skin with soap and plenty of water for at least 15 minutes. Remove contaminate clothing. Get medical attention if symptoms occur. Wash clothing before reuse.
Eye Contact	Hold eyelids apart and flush eyes with plenty of water for at least 15 minutes. Have eyes examinee and tested by medical personnel.
Ingestion	Wash out mouth with water provided person is conscious. Never give anything by mouth to an unconscious person. Get medical attention. Do NOT induce vomiting unless directed to do so by medical personnel.
Symptoms/Effects	
Acute	Not available.
Delayed	Not available.
Immediate Medical Attention	Not available.

Section 5: Fire-Fighting Measures

Suitable Extinguishing Media

Use alcohol-resistant foam, carbon dioxide, water, or dry chemical spray. Use water spray to cool fire-exposed containers.

Unsuitable Extinguishing Media

A solid water stream may be inefficient

Products of Combustion

Not available

Firefighters Special Equipment and Precautions

As in any fire, wear self-contained breathing apparatus pressure-demand (NIOSH approved or equivalent), and full protective gear to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

Protective Precautions, Protective Equipment and Emergency Procedures: Avoid raising and breathing dust, and provide adequate ventilation. As conditions warrant, wear a NIOSH approved self-contained breathing apparatus, or respirator, and appropriate personal protection (rubber boots, safety goggles, and heavy rubber gloves). Environmental Precautions: Take steps to avoid release into the environment, if safe to do so. Methods and Material For Containment and Cleaning Up: Contain spill and collect, as appropriate. Transfer to a chemical waste container for disposal in accordance with local regulations. Methods for cleaning up: Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

Section 7: Handling and Storage

Precautions To Be Taken in Handling: Avoid breathing dust/fume/gas/mist/vapours/spray. Avoid prolonged or repeated exposure. Precautions To Be Taken in Storing: Keep container tightly closed. Store in accordance with information listed on the product insert.

Section 8: Exposure Controls/Personal Protection

Exposure Limits	Not available.
Engineering Controls	Use process enclosures, local exhaust ventilation, or other engineering controls to control airborne levels below recommended exposure limits.
Personal Protection	Eye Protection: Safety glasses Protective Gloves: Compatible chemical-resistant gloves Other Protective Clothing: Lab coat Respiratory Equipment (Specify Type): NIOSH approved respirator, as conditions warrant. Work/Hygienic/Maintenance Practices: Do not take internally. Facilities storing or utilizing this material should be equipped with an eyewash and a safety shower. Wash thoroughly after handling.

Section 9: Physical and Chemical Properties

Appearance	Faintly yellow Powder		
Odor	Not available.		
Odor Threshold	Not available.		
Melting Point	172C	pH	Not available.
Freezing Point	Not available.	Vapor Pressure	Not available.
Boiling Point/Range	Not available.	Vapor Density	Not available.
Decomposition temperature	Not available.	Viscosity	Not available.
Partition Coefficient: n-octanol/water	Not available.	Evaporation Rate	Not available.
Flash Point	Not available.	Autoignition temperature	Not available.
Flammability	Not availalbe.	Flammability or Explosive Limits:	
		Lower	Not available.
		Upper	Not available.
Solubility(ies)	Soluble in: H2O (hot);		
Other	Not available.		

Section 10: Stability and Reactivity

Reactivity	Not available.
Chemical Stability	The product is stable. Stable if stored in accordance with information listed on the product insert.
Hazardous Polymerization	Hazardous polymerization will not occur.
Conditions to Avoid	Not available.
Incompatible Materials	strong oxidizing agents
Hazardous Decomposition Products	carbon dioxide carbon monoxide

Section 11: Toxicological Information

RTECS	UD3365500
Acute Toxicity	
Ferulic Acid -Toxicity Data: Intraperitoneal LD50 (mouse): >350 mg/kg: Oral TDLO (rat): 50 mg/kc	
Skin Corrosion/Irritation	
Not available.	
Serious Eye Damage/Irritation	
Not available.	
Respiratory or Skin Sensitization	
Not available.	
Germ Cell Mutagenicity	
Not available.	
Carcinogenicity	
Not available.	
Reproductive Toxicity	
Not available.	
Routes of Entry	
Not available.	



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Symptoms Related to Exposure

Inhalation: Material is irritating to mucous membranes and upper respiratory tract. Multiple Routes: May be harmful by inhalation, ingestion, or skin absorption. Causes eye and skin irritation.

Potential Health Effects

Not available.

Target Organ(s) Not available.

Section 12: Ecological Information

Ecotoxicity

Avoid release into the environment. Runoff from fire control or dilution water may cause pollution.

Persistence and Degradability

Not available.

Bioaccumulative Potential

Not available.

Mobility in Soil

Not available.

Other Adverse Effects

Not available.

Section 13: Disposal Considerations

Waste Disposal

Dispose in accordance with local, state, and federal regulations.

Disposal of Container

Not available.

Other Considerations

Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubbers. Observe all federal, state, and local environmental regulations.

Section 14: Transport Information

DOT Classification

Land Transport (US DOT): Not dangerous goods. Land Transport (European ADR/RID): Not dangerous goods. Air Transport (ICAO/IATA): Not dangerous goods. Additional Transport: Transport in accordance with local, state, and federal regulations. Non-hazardous for air transport

Section 15: Regulatory Information

Regulations

Not available.

Other

Indication of Danger: Irritant. R: 36/37/38 Risk Statements: Irritating to eyes, respiratory system and skin. S: 26 36 Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. US CLASSIFICATION AND LABEL TEXT Indication of Danger: Irritant. Risk Statements: Irritating to eyes, respiratory system and skin. Safety Statements: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. Wear suitable protective clothing. UNITED STATES REGULATORY INFORMATION SARA LISTED: No TSCA INVENTORY ITEM: Yes CANADA REGULATORY INFORMATION WHMIS Classification: This product has been classified in accordance with the hazard criteria of the CPR, and the MSDS contains all the information required by the CPR. DSL: NO NDSL: Yes

Section 16: Other Information



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