



MATERIAL SAFETY DATA SHEET *

SECTION 1 – PRODUCT IDENTITY AND COMPANY INFORMATION

Product Name Ferulic Acid
Company McKinley Resources
Address P.O. Box 810472
 Dallas, TX 75381
Phone# (972) 620-9730
Fax# (972) 421.1860

SECTION 2 – INFORMATION ON INGREDIENT

SUBSTANCE NAME Ferulic Acid
SYNONYMS 3-(4-Hydroxy-3-methoxyphenyl)-2-propenoic acid
CAS NUMBER 1135-24-6
FORMULA C₁₀H₁₀O₄

SECTION 3 – HAZARDS IDENTIFICATION

HMIS RATING
HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0
NFPA RATING
HEALTH: 2
FLAMMABILITY: 0
REACTIVITY: 0

SECTION 4 – TOXICOLOGICAL INFORMATION

Routes of Entry: Inhalation. Ingestion.

Routes of Exposure:

Skin Contact: May cause skin irritation.

Eye Contact: May cause eye irritation.

Inhalation: May be harmful if inhaled in large. The material may be irritating to upper respiratory tract.

Ingestion: May cause gastrointestinal track irritation with nausea, vomiting and diarrhea.



Signs and Symptoms of Exposure

To the best of our knowledge, the toxicological properties of this substance have not been thoroughly investigated.

SECTION 5 – FIRST AID MEASURES

<u>Eye Exposure</u>	In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.
<u>Dermal Exposure</u>	In case of skin contact, immediately wash skin with soap and copious amounts of water.
<u>Inhalation Exposure</u>	If inhaled, remove to fresh air. If breathing becomes difficult give artificial respiration, call a physician.
<u>Oral Exposure</u>	If swallowed, wash out mouth with water. Call a physician.

SECTION 6 – FIRE AND EXPLOSION DATA

<u>Flammability of the product</u>	Not available.
<u>Auto-Ignition temperature</u>	Not available.
<u>Flash Points</u>	Not available.
<u>Flammable Limits</u>	Not available.
<u>Extinguishing Media</u>	Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.
<u>Firefighting</u>	Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes. <u>Specific Hazard(s)</u> : Emits toxic fumes under fire conditions.

SECTION 7 – ACCIDENTAL RELEASE MEASURES

<u>Procedure(s) of Personal</u>	
<u>Precaution(s)</u>	Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust. Wear respirator, chemical safety goggles, rubber boots, and rubber gloves.
<u>Methods for Cleaning up</u>	Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area. Wash spilled site with soap solution.

SECTION 8 – HANDLING AND STORAGE

<u>Handling</u>	Keep away from heat. Keep away from sources of ignition. <u>User Exposure</u> : Do not breathe dust. Avoid contact with eyes, skin, and clothing. Avoid prolonged or repeated exposure. Wear suitable protective clothing.
<u>Storage</u>	Suitable: Keep tightly closed. Keep container in a cool, well-ventilated area.



SECTION 9 – EXPOSURE CONTROLS/ PERSONAL PROTECTION

Engineering Controls:

Use process enclosures, local exhaust ventilation. Mechanical exhaust required

Personal Protective

Equipment

Chemical safety goggles. Lab coat. Dust respirator. Gloves.

General Hygiene Measures

Wash thoroughly after handling.

SECTION 10 – STABILITY

Stability: Stable

Materials to Avoid: Oxidizing agents.

SECTION 11 – TRANSPORT INFORMATION

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air transport.

IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR ADOPTION OF NECESSARY SAFETY PRECAUTIONS.

MCKINLEY RESOURCES SHALL NOT BE HELD LIABLE FOR ANY DAMAGE RESULTING FROM HANDLING OR FROM CONTACT WITH THE ABOVE PRODUCT.

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