



# Ethyl Ferulic Acid

SDS Number: **SDS201801081083**Version No: **2.0**Issue Date: **02/28/2020**

Safety Data Sheet according to OSHA HazCom Standard (2012) requirements

## SECTION 1 IDENTIFICATION

### Product Identifier

**Product name:** Ethyl Ferulic Acid  
**Chemical Name:** ethyl 4-hydroxy-3-methoxycinnamate  
**Synonyms:** Not Available  
**Chemical formula:** C12-H14-O4  
**Other means of identification:** Not Available

**CAS number:** 4046-02-0

### Recommended use of the chemical and restrictions on use

**Relevant identified uses:** Phenylpropanoids are ingredients of essential oils including those derived from anis, cinnamon bark, and clove They are often used for fragrances and aromatherapy.

### Name, address, and telephone number of the chemical manufacturer, importer, or other responsible party

Registered company name	Zley holdings (Suzhou) Co., Ltd.
Address	10th Floor, Building 2, Yushan Square, High-tech Zone, Suzhou City, Jiangsu Province, china.
Telephone	+86-18626205929
E-mail	baron58@vip.qq.com
Emergency number	<b>4000928866</b>
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## SECTION 2 HAZARD(S) IDENTIFICATION

### Classification of the substance or mixture

Considered a Hazardous Substance by the 2012 OSHA Hazard Communication Standard (29 CFR 1910.1200). Not classified as Dangerous Goods for transport purposes.

<b>Classification Label elements</b>	Skin Corrosion/Irritation Category 2, Eye Irritation Category 2A, Specific target organ toxicity - single exposure Category 3 (respiratory tract irritation)
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### Hazard pictogram(s)



**SIGNAL WORD:** **WARNING**

### Hazard statement(s)

**H315:** Causes skin irritation.  
**H319:** Causes serious eye irritation.  
**H335:** May cause respiratory irritation.

### Precautionary statement(s) General

**P101:** If medical advice is needed, have product container or label at hand.  
**P102:** Keep out of reach of children.  
**P103:** Read label before use.

### Precautionary statement(s) Prevention

**P271:** Use only outdoors or in a well-ventilated area.  
**P261:** Avoid breathing dust/fumes.  
**P280:** Wear protective gloves/protective clothing/eye protection/face protection.

## Ethyl Ferulic Acid

**Precautionary statement(s) Response**

**P362:** Take off contaminated clothing and wash before reuse.

**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.

**P337+P313:** If eye irritation persists: Get medical advice/attention.

**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.

**P332+P313:** If skin irritation occurs: Get medical advice/attention.

**Precautionary statement(s) Storage**

**P405:** Store locked up.

**P403+P233:** Store in a well-ventilated place. Keep container tightly closed.

**Precautionary statement(s) Disposal**

**P501:** Dispose of contents/container in accordance with local regulations.

**SECTION 3 COMPOSITION / INFORMATION ON INGREDIENTS****Substances**

CAS No	%[weight]	Name
4046-02-0	>95	Ethyl Ferulic Acid

**Mixtures**

See section above for composition of Substances

**SECTION 4 FIRST-AID MEASURES****Description of first aid measures****Eye Contact**

If this product comes in contact with the eyes:

- Wash out immediately with fresh running water.
- Ensure complete irrigation of the eye by keeping eyelids apart and away from eye and moving the eyelids by occasionally lifting the upper and lower lids.
- Seek medical attention without delay; if pain persists or recurs seek medical attention.
- Removal of contact lenses after an eye injury should only be undertaken by skilled personnel.

**Skin Contact**

If skin contact occurs:

- Immediately remove all contaminated clothing, including footwear.
- Flush skin and hair with running water (and soap if available).
- Seek medical attention in event of irritation.

**Inhalation**

- If fumes or combustion products are inhaled remove from contaminated area.
- Lay patient down. Keep warm and rested.
- Prosthesis such as false teeth, which may block airway, should be removed, where possible, prior to initiating first aid procedures.
- Apply artificial respiration if not breathing, preferably with a demand valve resuscitator, bag-valve mask device, or pocket mask as trained. Perform CPR if necessary.
- Transport to hospital, or doctor, without delay.

**Ingestion**

- Immediately give a glass of water.
- First aid is not generally required. If in doubt, contact a Poisons Information Centre or a doctor.

**Most important symptoms and effects, both acute and delayed**

See Section 11

**Indication of any immediate medical attention and special treatment needed**

Treat symptomatically.

**SECTION 5 FIRE-FIGHTING MEASURES****Extinguishing media**

- There is no restriction on the type of extinguisher which may be used.
- Use extinguishing media suitable for surrounding area.

**Special hazards arising from the substrate or mixture****Fire Incompatibility**

None known.

**Special protective equipment and precautions for fire-fighters****Fire Fighting**

- Alert Fire Brigade and tell them location and nature of hazard.
- Wear breathing apparatus plus protective gloves in the event of a fire.

## Ethyl Ferulic Acid

**Fire/Explosion Hazard**

- Non combustible.
  - Not considered a significant fire risk, however containers may burn.
- May emit poisonous fumes.

**SECTION 6 ACCIDENTAL RELEASE MEASURES****Personal precautions, protective equipment and emergency procedures**

See section 8

**Environmental precautions**

See section 12

**Methods and material for containment and cleaning up****Minor Spills**

- Clean up all spills immediately.
- Avoid breathing dust and contact with skin and eyes.

**Major Spills**

Moderate hazard.

- **CAUTION:** Advise personnel in area.

Personal Protective Equipment advice is contained in Section 8 of the SDS.

**SECTION 7 HANDLING AND STORAGE****Precautions for safe handling****Safe handling**

- Avoid all personal contact, including inhalation.
- Wear protective clothing when risk of exposure occurs.

**Other information**

Phenylpropanoids are labile and after unsealing the container, they should be stored refrigerated or frozen under an inert gas such as nitrogen/argon.

Phenylpropanoids are easily oxidised in the liquid state and should be used them within a short period of time after preparation.

- Store in original containers.
- Keep containers securely sealed.

**Conditions for safe storage, including any incompatibilities****Suitable container**

- Polyethylene or polypropylene container.
- Check all containers are clearly labelled and free from leaks.

**Storage incompatibility**

None known

**SECTION 8 EXPOSURE CONTROLS / PERSONAL PROTECTION****Control parameters****Occupational Exposure Limits (OEL)****INGREDIENT DATA**

Not Available

**Exposure controls****Appropriate engineering controls**

Engineering controls are used to remove a hazard or place a barrier between the worker and the hazard. Well-designed engineering controls can be highly effective in protecting workers and will typically be independent of worker interactions to provide this high level of protection.

**Personal protection****Eye and face protection**

- Safety glasses with side shields.
- Chemical goggles.

**Skin protection**

See Hand protection below

**Hands/feet protection**

The selection of suitable gloves does not only depend on the material, but also on further marks of quality which vary from manufacturer to manufacturer. Where the chemical is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

Experience indicates that the following polymers are suitable as glove materials for protection against undissolved, dry solids, where abrasive particles are not present.

- polychloroprene.

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**Body protection**

See Other protection below

**Other protection**

- Overalls.
- P.V.C.

**Thermal hazards**

Not Available

**SECTION 9 PHYSICAL AND CHEMICAL PROPERTIES****Information on basic physical and chemical properties**

**Appearance:** Not Available

<b>Physical state</b>	Solid	<b>Relative density (Water = 1)</b>	Not Available
<b>Odour</b>	Not Available	<b>Partition coefficient n-octanol / water</b>	Not Available
<b>Odour threshold</b>	Not Available	<b>Auto-ignition temperature (°C)</b>	Not Available
<b>pH (as supplied)</b>	Not Available	<b>Decomposition temperature</b>	Not Available
<b>Melting point / freezing point (°C)</b>	Not Available	<b>Viscosity (cSt)</b>	Not Available
<b>Initial boiling point and boiling range (°C)</b>	Not Available	<b>Molecular weight (g/mol)</b>	Not Available
<b>Flash point (°C)</b>	Not Available	<b>Taste</b>	Not Available
<b>Evaporation rate</b>	Not Available	<b>Explosive properties</b>	Not Available
<b>Flammability Limit (%)</b>	Not Available	<b>Stability (in contact with)</b>	Not Available
<b>Upper Explosive Limit (%)</b>	Not Available	<b>Volatile Component (%vol)</b>	Not Available
<b>Lower Explosive Limit (%)</b>	Not Available	<b>Gas group</b>	Not Available
<b>Vapour pressure (kPa)</b>	Not Available	<b>pH as a solution (1%)</b>	Not Available
<b>Solubility in water (g/L)</b>	Not Available	<b>VOC g/L</b>	Not Available
<b>Solubility (Air = 1)</b>	Not Available		

**SECTION 10 STABILITY AND REACTIVITY****Reactivity:**

See section 7

**Chemical stability:**

- Unstable in the presence of incompatible materials.
- Product is considered stable.

**Possibility of hazardous reactions:**

See section 7

**Conditions to avoid:**

See section 7

**Incompatible materials:**

See section 7

**Hazardous decomposition products:**

See section 5

**SECTION 11 TOXICOLOGICAL INFORMATION****Information on toxicological effects****Inhaled**

The material can cause respiratory irritation in some persons. The body's response to such irritation can cause further lung damage.

Persons with impaired respiratory function, airway diseases and conditions such as emphysema or chronic bronchitis, may incur further disability if excessive concentrations of particulate are inhaled.

If prior damage to the circulatory or nervous systems has occurred or if kidney damage has been sustained, proper screenings should be conducted on individuals who may be exposed to further risk if handling and use of the material result in excessive exposures.

**Ingestion**

The material has **NOT** been classified by EC Directives or other classification systems as 'harmful by ingestion'. This is because of the lack of corroborating animal or human evidence.

**Skin Contact**

This material can cause inflammation of the skin on contact in some persons.

The material may accentuate any pre-existing dermatitis condition

Skin contact is not thought to have harmful health effects (as classified under EC Directives); the material may still produce health damage following entry through wounds, lesions or abrasions.

Open cuts, abraded or irritated skin should not be exposed to this material

Entry into the blood-stream, through, for example, cuts, abrasions or lesions, may produce systemic injury with harmful effects. Examine the skin prior to the use of the material and ensure that any external damage is suitably protected.

**Eye**

This material can cause eye irritation and damage in some persons.

**Chronic**

Long-term exposure to respiratory irritants may result in airways disease, involving difficulty breathing and related whole-body problems.

Substance accumulation, in the human body, may occur and may cause some concern following repeated or long-term occupational exposure.

## Ethyl Ferulic Acid

Ethyl Ferulic Acid	<b>TOXICITY</b>	<b>IRRITATION</b>
	Not Available	Not Available

## SECTION 12 ECOLOGICAL INFORMATION

## Toxicity

Ethyl Ferulic Acid	<b>ENDPOINT</b>	<b>TEST DURATION (HR)</b>	<b>SPECIES</b>	<b>VALUE</b>	<b>SOURCE</b>
	Not Available	Not Available	Not Available	Not Available	Not Available

**DO NOT** discharge into sewer or waterways.

## Persistence and degradability

<b>Ingredient</b>	<b>Persistence: Water/Soil</b>	<b>Persistence: Air</b>
Ethyl Ferulic Acid	LOW	LOW

## Bioaccumulative potential

<b>Ingredient</b>	<b>Bioaccumulation</b>
Ethyl Ferulic Acid	LOW (LogKOW = 2.1928)

## Mobility in soil

<b>Ingredient</b>	<b>Mobility</b>
Ethyl Ferulic Acid	LOW (KOC = 560.8)

## SECTION 13 DISPOSAL CONSIDERATIONS

## Waste treatment methods

## Product / Packaging disposal

- Recycle wherever possible or consult manufacturer for recycling options.
- Consult State Land Waste Management Authority for disposal.

## SECTION 14 TRANSPORT INFORMATION

## Labels Required

## Marine Pollutant

NO

	<b>Land transport (DOT): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS</b>	<b>Air transport (ICAO-IATA / DGR): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS(61th edition)</b>	<b>Sea transport (IMDG-Code / GGVSee): NOT REGULATED FOR TRANSPORT OF DANGEROUS GOODS(39-18)</b>
UN number: <b>NA</b>			
UN proper shipping name: <b>Not Applicable</b>			
Transport hazard class(es): <b>Not Applicable</b>			
Subrisk: <b>Not Applicable</b>			
Packing group: <b>Not Applicable</b>			

## SECTION 15 REGULATORY INFORMATION

## Safety, health and environmental regulations / legislation specific for the substance or mixture

Ethyl Ferulic Acid(4046-02-0\*) is found on the following regulatory lists - Not Applicable

## Ethyl Ferulic Acid

**Federal Regulations****Superfund Amendments and Reauthorization Act of 1986 (SARA)****Section 311/312 hazard categories**

Immediate (acute) health hazard	Yes
Delayed (chronic) health hazard	No
Fire hazard	No
Pressure hazard	No
Reactivity hazard	No

**US. EPA CERCLA Hazardous Substances and Reportable Quantities (40 CFR 302.4)**

None Reported

**State Regulations****US. California Proposition 65**

None Reported

**SECTION 16 OTHER INFORMATION****Other information**

The SDS is a Hazard Communication tool and should be used to assist in the Risk Assessment. Many factors determine whether the reported Hazards are Risks in the workplace or other settings.

**Definitions and abbreviations**

PC—TWA: Permissible Concentration-Time Weighted Average

PC—STEL: Permissible Concentration-Short Term Exposure Limit

IARC: International Agency for Research on Cancer

ACGIH: American Conference of Governmental Industrial Hygienists

STEL: Short Term Exposure Limit

TEEL: Temporary Emergency Exposure Limit.

IDLH: Immediately Dangerous to Life or Health Concentrations

OSF: Odour Safety Factor

NOAEL :No Observed Adverse Effect Level

LOAEL: Lowest Observed Adverse Effect Level

TLV:Threshold Limit Value

LOD: Limit Of Detection

OTV: Odour Threshold Value

BCF: BioConcentration Factors

BEI: Biological Exposure Index

