

**SAFETY DATA SHEET** 

Version 6.1 Revision Date 01/28/2020 Print Date 10/08/2022

# SECTION 1: Identification of the substance/mixture and of the company/undertaking

# **1.1** Product identifiers

Product name	:	Ferulic Acid, United States Pharmacopeia
		(USP) Reference Standard

Product Number	:	1270311
Brand	:	US Pharmacopeia
CAS-No.	:	1135-24-6

# **1.2** Relevant identified uses of the substance or mixture and uses advised against

# 1.3 Details of the supplier of the safety data sheet

Company	:	Sigma-Aldrich Inc. 3050 SPRUCE ST ST. LOUIS MO 63103 UNITED STATES
Telephone Fax	-	+1 314 771-5765 +1 800 325-5052

# **1.4 Emergency telephone number**

Emergency Phone # : 800-424-9300 CHEMTREC (USA) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week

### **SECTION 2: Hazards identification**

# 2.1 Classification of the substance or mixture

### GHS Classification in accordance with 29 CFR 1910 (OSHA HCS)

Skin irritation (Category 2), H315 Eye irritation (Category 2A), H319 Specific target organ toxicity - single exposure (Category 3), Respiratory system, H335

For the full text of the H-Statements mentioned in this Section, see Section 16.

# 2.2 GHS Label elements, including precautionary statements

Pictogram



Signal word

Warning

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Hazard statement(s) H315 H319 H335	Causes skin irritation. Causes serious eye irritation. May cause respiratory irritation.
Precautionary statement(s)	
P261	Avoid breathing dust/ fume/ gas/ mist/ vapours/ spray.
P264	Wash skin thoroughly after handling.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves/ eye protection/ face protection.
P302 + P352	IF ON SKIN: Wash with plenty of soap and water.
P304 + P340 + P312	IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
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.
P403 + P233	Store in a well-ventilated place. Keep container tightly closed.
P405	Store locked up.
P501	Dispose of contents/ container to an approved waste disposal plant.

# 2.3 Hazards not otherwise classified (HNOC) or not covered by GHS - none

# **SECTION 3: Composition/information on ingredients**

#### 3.1 Substances

Molecular weight	:	194.2 g/mol
CAS-No.	:	1135-24-6

Component	Classification	Concentration	
4-Hydroxy-3-methoxycinnamic acid			
	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335	<= 100 %	

For the full text of the H-Statements mentioned in this Section, see Section 16.

### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

### General advice

Consult a physician. Show this safety data sheet to the doctor in attendance. Move out of dangerous area.

#### If inhaled

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

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# In case of skin contact

Wash off with soap and plenty of water. Consult a physician.

### In case of eye contact

Rinse thoroughly with plenty of water for at least 15 minutes and consult a physician.

### If swallowed

Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11

**4.3 Indication of any immediate medical attention and special treatment needed** No data available

### **SECTION 5: Firefighting measures**

5.1 Extinguishing media

# Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.

- **5.2** Special hazards arising from the substance or mixture Carbon oxides
- **5.3** Advice for firefighters Wear self-contained breathing apparatus for firefighting if necessary.
- **5.4 Further information** No data available

# **SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures
 Use personal protective equipment. Avoid dust formation. Avoid breathing vapours, mist
 or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing
 dust.

For personal protection see section 8

For personal protection see section 8.

**6.2 Environmental precautions** Do not let product enter drains.

# **6.3 Methods and materials for containment and cleaning up** Pick up and arrange disposal without creating dust. Sweep up and shovel. Keep in suitable, closed containers for disposal.

**6.4** Reference to other sections For disposal see section 13.

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# SECTION 7: Handling and storage

# 7.1 Precautions for safe handling

Further processing of solid materials may result in the formation of combustible dusts. The potential for combustible dust formation should be taken into consideration before additional processing occurs. Avoid contact with skin and eyes. Avoid formation of dust and aerosols.

Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2.

# 7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed in a dry and well-ventilated place.

Keep in a dry place. Storage class (TRGS 510): 13: Non Combustible Solids

### 7.3 Specific end use(s)

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated

# SECTION 8: Exposure controls/personal protection

# 8.1 Control parameters

# **Components with workplace control parameters**

Contains no substances with occupational exposure limit values. Hazardous components without workplace control parameters

# 8.2 Exposure controls

# Appropriate engineering controls

Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.

### **Personal protective equipment**

### Eye/face protection

Safety glasses with side-shields conforming to EN166 Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU).

### **Skin protection**

Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose of contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands.

### **Body Protection**

Impervious clothing, The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.

### **Respiratory protection**

For nuisance exposures use type P95 (US) or type P1 (EU EN 143) particle respirator.For higher level protection use type OV/AG/P99 (US) or type ABEK-P2 (EU EN 143) respirator cartridges. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

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# **Control of environmental exposure**

Do not let product enter drains.

# **SECTION 9: Physical and chemical properties**

# 9.1 Information on basic physical and chemical properties

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а	)	Appearance	Form: powder Colour: light yellow
b	)	Odour	No data available
С	)	Odour Threshold	No data available
d	)	рН	No data available
e	)	Melting point/freezing point	Melting point/range: 171 °C (340 °F)
f	)	Initial boiling point and boiling range	No data available
g	)	Flash point	()No data available
h	)	Evaporation rate	No data available
ij	)	Flammability (solid, gas)	No data available
j	)	Upper/lower flammability or explosive limits	No data available
k	)	Vapour pressure	No data available
Ľ	)	Vapour density	No data available
n	n)	Relative density	No data available
n	)	Water solubility	No data available
0	)	Partition coefficient: n-octanol/water	No data available
p	)	Auto-ignition temperature	No data available
q	)	Decomposition temperature	No data available
r	)	Viscosity	No data available
S	)	Explosive properties	No data available
t	)	Oxidizing properties	No data available
-		er safety informatio	n
- N	0 0	data available	

No data available

# SECTION 10: Stability and reactivity

### **10.1 Reactivity**

9.2

No data available

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# 10.2 Chemical stability

Stable under recommended storage conditions.

- 10.3 Possibility of hazardous reactions No data available
- **10.4 Conditions to avoid** No data available
- **10.5 Incompatible materials** Strong oxidizing agents
- **10.6 Hazardous decomposition products** Hazardous decomposition products formed under fire conditions. - Carbon oxides In the event of fire: see section 5

### **SECTION 11: Toxicological information**

### 11.1 Information on toxicological effects

### **Acute toxicity**

No data available

No data available Inhalation: No data available

Inhalation: Irritating to respiratory system. Dermal: No data available

Dermal: No data available No data available No data available

### Skin corrosion/irritation

No data available

No data available

#### Serious eye damage/eye irritation

No data available No data available

### **Respiratory or skin sensitisation**

No data available No data available

### Germ cell mutagenicity

No data available No data available

#### Carcinogenicity

- 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.
- 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 on OSHA's list of regulated carcinogens.

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# **Reproductive toxicity**

No data available No data available

#### Specific target organ toxicity - single exposure No data available

#### Specific target organ toxicity - repeated exposure No data available

**Aspiration hazard** No data available

# **Additional Information**

**RTECS:** Not available

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

# **SECTION 12: Ecological information**

### 12.1 Toxicity

No data available No data available

- 12.2 Persistence and degradability No data available
- 12.3 Bioaccumulative potential No data available
- **12.4 Mobility in soil** No data available

### 12.5 Results of PBT and vPvB assessment PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Other adverse effects No data available No data available

### **SECTION 13: Disposal considerations**

### 13.1 Waste treatment methods

### Product

Contact a licensed professional waste disposal service to dispose of this material. Offer surplus and non-recyclable solutions to a licensed disposal company.

# **Contaminated packaging**

Dispose of as unused product.

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# **SECTION 14: Transport information**

### DOT (US)

Not dangerous goods

### IMDG

Not dangerous goods

## ΙΑΤΑ

Not dangerous goods

# SECTION 15: Regulatory information

### SARA 302 Components

No chemicals in this material are subject to the reporting requirements of SARA Title III, Section 302.

### SARA 313 Components

This material does not contain any chemical components with known CAS numbers that exceed the threshold (De Minimis) reporting levels established by SARA Title III, Section 313.

# SARA 311/312 Hazards

Acute Health Hazard

### **Massachusetts Right To Know Components**

No components are subject to the Massachusetts Right to Know Act.

Pennsylvania Right To Know Components 4-Hydroxy-3-methoxycinnamic acid	CAS-No. 1135-24-6	Revision Date
4-Hydroxy-3-methoxycinnamic acid	CAS-No. 1135-24-6	Revision Date
New Jersey Right To Know Components 4-Hydroxy-3-methoxycinnamic acid	CAS-No. 1135-24-6	Revision Date

### **California Prop. 65 Components**

The life science business of Merck KGaA, Darmstadt, Germany

operates as MilliporeSigma in the US and Canada

This product does not contain any chemicals known to State of California to cause cancer, birth defects, or any other reproductive harm.



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# **SECTION 16: Other information**

### Further information

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The above information is believed to be correct but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Sigma-Aldrich Corporation and its Affiliates shall not be held liable for any damage resulting from handling or from contact with the above product. See www.sigma-aldrich.com and/or the reverse side of invoice or packing slip for additional terms and conditions of sale.

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