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

### 1.1. Product identifier

Ferulic acid synthetic

**Further trade names**

Material Code 5002

REACH Registration Number: 01-2120748640-55-XXXX
CAS No: 1135-24-6
EC No: 214-490-0

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

**Use of the substance/mixture**

Raw material for: Cosmetics industry

### 1.3. Details of the supplier of the safety data sheet

Company name: GfN Herstellung von Naturextrakten GmbH
Street: Strassburg 16
Place: D-69483 Wald-Michelbach
Telephone: +49 6207 922 80 Telefax: +49 6207 922 810
e-mail: info@gfn-selco.de
Internet: www.gfn-selco.de
Responsible Department: Responsible for the safety data sheet: sds@gbk-ingelheim.de

### 1.4. Emergency telephone number:

Uniklinik Mainz, Tel.: +49 (0) 61 31 23 24 66

## SECTION 2: Hazards identification

### 2.1. Classification of the substance or mixture

**Classification according to Regulation (EC) No. 1272/2008 [CLP]**

This substance is not classified as hazardous in accordance with Regulation (EC) No. 1272/2008.

### 2.2. Label elements

**Additional advice on labelling**

The product does not require a hazard warning label in accordance with EC directives/the relevant national laws.

### 2.3. Other hazards

According to Regulation (EC) No 1907/2006 (REACH), this product is regarded to be neither PBT nor vPvB.
Risk of dust explosion.

## SECTION 3: Composition/information on ingredients

### 3.1. Substances

Sum formula: C10 H10 O4

**Hazardous components**

| EC No | Chemical name | Quantity |
|---|---|---|
| CAS No | | |
| Index No | GHS Classification | |
| 214-490-0 | 4-Hydroxy-3-methoxycinnamic acid | >99 % |
| 1135-24-6 | | |
| | | |

Full text of H and EUH statements: see section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

**General information**
Remove contaminated soaked clothing immediately.
Call a physician immediately.

**After inhalation**
Move to fresh air in case of accidental inhalation of dust or fumes from overheating or combustion.
Supply fresh air, if required oxygen, consult a physician.

**After contact with skin**
In case of contact with skin wash off immediately with plenty of water.
Consult a doctor if skin irritation persists.

**After contact with eyes**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
Seek medical treatment by eye specialist.

**After ingestion**
Do not induce vomiting.
Rinse out mouth and give plenty of water to drink.
Never give anything by mouth to an unconscious person.
Summon a doctor immediately.

### 4.2. Most important symptoms and effects, both acute and delayed
Contact with eyes or skin may cause irritation.
Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.
Inhalation of dust may cause irritations of mucous membranes, cough and shortness of breath.

### 4.3. Indication of any immediate medical attention and special treatment needed
Treat symptoms.

## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media**
Foam, carbon dioxide (CO2), dry chemical, water-spray.

**Unsuitable extinguishing media**
Full water jet

### 5.2. Special hazards arising from the substance or mixture
Fire may produce:
carbon monoxide and carbon dioxide

### 5.3. Advice for firefighters
In case of fire, wear suitable respiratory equipment with positive air supply.
Protective suit.

**Additional information**
Cool containers at risk with water spray jet.
Do not release chemically contaminated water into drains, soil or surface waters. Sufficient measures must be taken to retain water used for extinguishing.
Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures
Avoid dust formation. Do not breathe dust.
Keep away sources of ignition.
Avoid contact with skin, eyes and clothing.
Use personal protective clothing.

Ensure adequate ventilation.

**6.2. Environmental precautions**
Do not discharge into the drains/surface waters/ground water.

**6.3. Methods and material for containment and cleaning up**
Pick up mechanically, avoiding dust, and provide disposal in suitable recipients.

**6.4. Reference to other sections**
Information for safe handling look up section 7.
Information for disposal see section 13.

## SECTION 7: Handling and storage

**7.1. Precautions for safe handling**

**Advice on safe handling**
Keep container tightly closed.
Handle and open container with care.
Avoid contact with skin, eyes and clothing.
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

**Advice on protection against fire and explosion**
Dust may form explosive mixture in air.
Take precautionary measures against static discharges.
Keep away from sources of ignition - No smoking.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**
Keep container tightly closed in a dry, cool and well-ventilated place.
Protect from heat and direct solar radiation.

**Hints on joint storage**
Incompatible with oxidizing agents.

**Further information on storage conditions**
Keep away from food, drink and animal feeding stuffs.

**7.3. Specific end use(s)**

Raw material for: Cosmetics industry

## SECTION 8: Exposure controls/personal protection

**8.1. Control parameters**

**Additional advice on limit values**
Obey TLV for common dust, if applicable.

**8.2. Exposure controls**

**Appropriate engineering controls**
Provide appropriate exhaust ventilation at machinery and at places where dust can be generated.

**Protective and hygiene measures**
Do not breathe dust.
Wash hands before breaks and immediately after handling the product.
Avoid contact with skin, eyes and clothing.
When using do not eat, drink or smoke.
Remove and wash contaminated clothes before re-use.

**Eye/face protection**
Tightly fitting goggles (EN 166).
Eye wash bottle with pure water (EN 15154).

**Hand protection**
Protective gloves resistant to chemicals made off nitrile, Minimum coat thickness 0.11 mm, Permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Dermatril L 741> made by www.kcl.de.

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions.
Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves.

**Skin protection**
Long sleeved clothing (DIN EN ISO 6530)
**Respiratory protection**
Breathing apparatus (particle filter) only if dust is formed.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

| | |
|---|---|
| Physical state: | Crystalline powder |
| Colour: | Water white to yellow |
| Odour: | Characteristic |
| pH-Value: | n.d. |
| **Changes in the physical state** | |
| Melting point: | 170 - 172 °C |
| Initial boiling point and boiling range: | n.d. |
| Sublimation point: | n.a. |
| Softening point: | n.d. |
| Flash point: | n.a. |
| Evaporation rate: | n.a. |
| Flammability | n.d. |
| Lower explosion limits: | n.d. |
| Upper explosion limits: | n.d. |
| Vapour pressure: | n.d. |
| Vapour density: | n.a. |
| Density (at 20 °C): | n.d. |
| Bulk density: | n.d. |
| Water solubility: (at 20 °C) | Partially soluble |
| Solubility in other solvents | n.d. |
| Partition coefficient: | n.d. |
| Ignition temperature: | n.d. |
| Auto-ignition temperature | The product is not self-igniting |
| Explosive properties | The product is considered non-explosive; nevertheless explosive dust/air mixture can be generated |
| Decomposition temperature: | n.d. |
| Viscosity / dynamic: (at 20 °C) | n.a. |
| Viscosity / kinematic: | n.a. |
| Oxidizing properties | Not oxidising. |
| Flow time: | n.a. |
| Solvent separation test: | n.a. |
| Solvent content: | 0 % |

**9.2. Other information**

Solid content: 100 %

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

No decomposition if stored and applied as directed.

**10.2. Chemical stability**

Stable under normal conditions.

**10.3. Possibility of hazardous reactions**

Reactions with oxidizing agents.

**10.4. Conditions to avoid**

Accumulation of fine dust may entail the risk of a dust explosion in the presence of air.
To avoid thermal decomposition, do not overheat.

**10.5. Incompatible materials**

oxidizing agents

**10.6. Hazardous decomposition products**

No hazardous decomposition products known.
Fire may produce:
Carbon monoxide and carbon dioxide

## SECTION 11: Toxicological information

**11.1. Information on toxicological effects**

**Acute toxicity**

Based on available data, the classification criteria are not met.
No toxicological data available.

**Irritation and corrosivity**

Based on available data, the classification criteria are not met.

**Sensitising effects**

Based on available data, the classification criteria are not met.

**STOT-single exposure**

Based on available data, the classification criteria are not met.

**Severe effects after repeated or prolonged exposure**

Based on available data, the classification criteria are not met.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Based on available data, the classification criteria are not met.

**Aspiration hazard**

Based on available data, the classification criteria are not met.

**Additional information on tests**

Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

**Practical experience**

**Other observations**

Contact with eyes or skin may cause irritation.
Ingestion causes irritation of upper respiratory system and gastrointestinal disturbance.
Inhalation of dust may cause irritations of mucous membranes, cough and shortness of breath.

## SECTION 12: Ecological information

**12.1. Toxicity**

Ecological data are not 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**

According to Regulation (EC) No 1907/2006 (REACH), this product is regarded to be neither PBT nor vPvB.

**12.6. Other adverse effects**

Low hazard to waters.

**Further information**

Do not flush into surface water or sanitary sewer system.

## SECTION 13: Disposal considerations

**13.1. Waste treatment methods**

**Disposal recommendations**

Can be incinerated, when in compliance with local regulations.
Where possible recycling is preferred to disposal.

**List of Wastes Code - residues/unused products**

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors; hazardous waste

**Contaminated packaging**

Empty containers should be taken for local recycling, recovery or waste disposal.
Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.
Packaging that cannot be cleaned should be disposed of like the product.

## SECTION 14: Transport information

**Land transport (ADR/RID)**

| | |
|---|---|
| **14.1. UN number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**Inland waterways transport (ADN)**

| | |
|---|---|
| **14.1. UN number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**Marine transport (IMDG)**

| | |
|---|---|
| **14.1. UN number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |
| **14.3. Transport hazard class(es):** | No dangerous good in sense of this transport regulation. |
| **14.4. Packing group:** | No dangerous good in sense of this transport regulation. |

**Air transport (ICAO-TI/IATA-DGR)**

| | |
|---|---|
| **14.1. UN number:** | No dangerous good in sense of this transport regulation. |
| **14.2. UN proper shipping name:** | No dangerous good in sense of this transport regulation. |

**14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.

**14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: no

**14.6. Special precautions for user**

No dangerous good in sense of this transport regulation.

**14.7. Transport in bulk according to Annex II of Marpol and the IBC Code**

No dangerous good in sense of this transport regulation.

## SECTION 15: Regulatory information

**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture**

**EU regulatory information**

2004/42/EC (VOC): 0 %

**National regulatory information**

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

For this substance a chemical safety assessment has not been carried out.

## SECTION 16: Other information

**Abbreviations and acronyms**

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
DOT = Department of Transportation
TDG = Transport of Dangerous Goods

GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative

LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

**Further Information**

Data of items 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities.
The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge.
The delivery specifications are contained in the corresponding product sheet.
This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.
(n.a. = not applicable; n.d. = not determined)