

Material Safety Data Sheet

Ferulic Acid

Update date 2018-06-05

1. Identification of the substance/preparation and company identification

Name of the substance: Ferulic Acid

EINECS: 214-490-0

Chemical formula:

CAS number: 1135-24-6

Synonyms: 4-hydroxy-3-methoxy cinnamic acid, 3-methoxy-4-hydroxy-cinnamic acid, 3-(4-hydroxy-3-methoxyphenyl) acrylic acid

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(Toxikologické informační středisko, Na Bojišti 1, 128 08 Praha2)

2. Identification of threats

Potential health effects

Inhalation: May be harmful if inhaled. May cause irritation to the respiratory system.

Skin: May be harmful if absorbed through the skin. May cause skin irritation.

Eyes: May cause eye irritation.

Ingestion: May be harmful if swallowed.

3. Composition / information on ingredients

Name of the substance: Kyselina ferulová

Chemical formula: C₁₀H₁₀O₄

CAS number: 1135-24-6

EINECS number: 214-490-0

Index number:

Synonyms: 4-hydroxy-3-methoxy cinnamic acid, 3-methoxy-4-hydroxy-cinnamic acid, 3-(4-hydroxy-3-methoxyphenyl) acrylic acid

Concentration (%): 100%

4. First aid

General information:

If you feel any discomfort, see a doctor.

After inhalation:

Remove the injured person from the place of exposure, keep him calm and have access to fresh air. If necessary, call a doctor.

After contact with skin:

Wash off with plenty of soap and water, remove contaminated clothing.

After contact with eyes:

Rinse immediately under running water (for 15 minutes) with the eyes open. Avoid strong water streams due to the risk of mechanical damage to the cornea.

After swallowing:

Give the injured person a large amount of water to drink (2-3 glasses). If a large amount is swallowed, contact a doctor.

The severity of symptoms varies depending on the concentration and duration of exposure.

After

ingestion: Gastrointestinal symptoms, i.e. nausea, upset stomach.

Symptomatic treatment indicated.

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5. Action in case of fire

Suitable extinguishing media :

Fire extinguishing **foam , powder fire extinguisher, carbon dioxide, dispersed water jet.**

Unsuitable extinguishing media : dense water jet.

Special hazards: fire may produce dangerous gases: carbon monoxide and dioxide (CO, CO₂), nitrogen oxides

Personal protective equipment for firefighters:

Use gas-tight protective clothing and a personal breathing apparatus.

Other: Do not allow extinguishing water to enter the sewage system, surface water, ground water or soil.

6. Procedure in case of unintentional release into the environment

Personnel-related preventive measures : avoid dust generation; do not inhale dust. Avoid contamination with the substance. Ensure adequate ventilation in closed rooms.

Remove sources of ignition, secure sewage wells . Do not allow the substance to enter sewage systems, water bodies or soil.

Cleaning methods:

Collect dry into containers and dispose of. Clean contaminated area

7. Handling and storage of the substance/preparation

Procedure: Ensure effective air exchange (ventilation). Follow the principles of good industrial practice and general principles of health and safety at work with chemical substances. Use personal protective equipment in accordance with point. 8. When using , do not eat or drink, avoid contact with the substance, avoid inhaling dust.

Storage: Keep

containers tightly closed. Cool, well-ventilated room.

8. Exposure controls and personal protective equipment

Control parameters (NDS, NDSch, NDSP): not established.

It is recommended to use adequate general and local ventilation to ensure the concentration of the product in the air below the specified limits.

According to the Regulation of the Ministry of Labor and Social Policy of November 29, 2002. Journal U. No. 217, item 1833 with changes.

Recommendations regarding the procedure for monitoring the content of hazardous components in the air - measurement methodology:-
regulation of the Ministry of Health of April 20, 2005 (Journal of Laws No. 73, item 645)

Personal protection

The personal protective equipment used should meet the requirements of the Regulation of the Minister of Economy of December 21, 2005 (Journal of Laws No. 259, item 2173).

Respiratory tract - recommended in case of dust - respirator Eyes

- tight-fitting safety glasses with side shields Hands - protective gloves

General industrial hygiene

measures - eating, drinking, smoking and keeping food is prohibited in the workplace .

Change contaminated clothes. Wash your hands and face after working with this substance. Apply a barrier-protective skin cream after working with the substance.

The employer is obliged to ensure that the personal protective equipment, clothing and footwear used have protective and functional properties and ensure that they are properly washed, maintained, repaired and disinfected.

9. Physical and chemical properties

Form: solid (crystalline powder)

Color: white to yellow Odor:

characteristic pH: no data

Melting point:

170-175 °C Boiling point: no data

Auto-ignition temperature: no data

Ignition temperature: no data Explosion

limits: no data

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-lower

-upper

Solubility: in

water - soluble in

organic solvents: no data

Density (25°C): no data available

Vapor pressure : no data

10. Stability and reactivity

Stability: The product is stable under normal conditions of use and storage.

Conditions to avoid: High temperature and high humidity.

Materials to avoid: Strong oxidants,

Hazardous decomposition products:

Carbon oxides, (CO, CO₂), nitrogen oxides

Next data: No data

11. Toxicological information

Acute toxicity :

LD50 Intraperitoneal - mouse > 194 mg/kg.

Irritation and corrosion : no data available.

Chronic exposure:

According to IARC, none of the ingredients in this product present at concentrations equal to or greater than 0.1% are identified as probable, possible or confirmed human carcinogens.

According to ACGIH, none of the ingredients in this product present at concentrations equal to or greater than 0.1% are identified as carcinogens or potential carcinogens.

According to NTP, none of the ingredients in this product present in concentrations equal to or greater than 0.1% are identified as carcinogens or potential carcinogens.

According to OSHA, none of the ingredients in this product present at concentrations equal to or greater than 0.1% have been identified as carcinogens or potential carcinogens.

Potential health effects:

Inhalation: May be harmful if inhaled. May cause respiratory irritation **Ingestion:** May be harmful if swallowed.

Skin: May be harmful if absorbed through the skin. May cause skin irritation.

Eyes: may cause eye irritation.

Additional information: RTECS: GD9275000

12. Ecological information

Ecotoxicity: No

quantitative data available for this product.

No short-lived decomposition products possible . However, long-lasting decomposition products may occur .

If the product is handled professionally and carefully, there should be no ecological problems.

Do not allow the product to enter sewage systems, surface waters, groundwater or soil.

Toxicity of biodegradation products: The product itself and its degradation products are not toxic.

Special notes regarding biodegradation products: No data available.

13. Waste treatment

Dispose of the product and packaging in accordance with local environmental laws and regulations .

Packaging:

Send empty single-use packaging to an authorized waste recipient. Reusable packaging can be reused if necessary after cleaning .

Waste classification:

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-Substance:

Depending on the place of manufacture based on the criteria contained in applicable regulations.

-Packaging:

15 01 02- plastic packaging.

Comply with applicable local and national regulations regarding the material, preparation or residue.

Proceed in accordance with the Act of December 14, 2012 on waste (Journal of Laws 2013, No. 0, item 21), as amended.

amendments and the Act of June 13, 2013 on packaging and packaging waste management (Journal of Laws 2013, No. 0, item 888) and the Regulation of the Minister of the Environment of September 27, 2001 on the waste catalog (Journal of Laws No. 112, item 1206).

14. Transport information

a) UN number: not subject to transport regulations.

b) Shipping name: not applicable.

c) Hazard number : not applicable.

d) RID / ADR class: not applicable.

e) packing group: not applicable.

f) Stickers: not applicable.

- Act on the transport of dangerous goods
- European Agreement concerning the international carriage of dangerous goods by road ADR
- Regulation of the Minister of Labor and Social Policy of March 14, 2000 (Journal of Laws No. 26, item 313) regarding occupational health and safety during manual transport work.

15. Information regarding legal regulations

a) Warning symbols:

no labeling required. b) Risk

phrases (R):

no labeling required. c) Terms of

proper conduct (S):

no labeling required.

Applicable legal provisions: •

Regulation (EC) of 18/12/2006 No. 1907/2006 of the European Parliament and of the Council on REACH

- Regulation of the Minister of Labor and Social Policy of November 29, 2002 on the maximum permissible concentrations and intensities of factors harmful to health in the work environment (Journal of Laws No. 217, item 1833) as amended changes.
- Regulation (EC) No. 1272/2008 of the European Parliament and of the Council of 16 December 2008. on classification, labeling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC and amending Regulation (EC) No 1907/2006,
- Commission Regulation (EU) No. 453/2010 of 20 May 2010. amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on registration, evaluation, authorization and restrictions in chemicals (REACH).
- Act of February 25, 2011 on chemical substances and their mixtures (Journal of Laws No. 63, item 322).
- Commission Regulation (EC) No 790/2009 of 10 August 2009 adapting to scientific progress technical Regulation (EC) No 1272/2008 of the European Parliament and of the Council of 16 December 2008 on classification, labeling and packaging of substances and mixtures.

16. Other information

The information contained in this sheet comes from sources we consider reliable. However, they are provided without any guarantees as to their accuracy. The conditions and methods of handling , storage, use and disposal of the product are beyond our control and are within our competence. For this reason, among other reasons, we decline to accept any liability for loss, damage or costs arising from the use, handling , storage or disposal of the product. This data sheet should only be used for this product.

The data contained in point 9 is for information purposes only, it is not a commercial offer within the meaning of the law (Article 71 of the Civil Code) and does not replace the parameters contained in the Quality Control certificate .