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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 23.05.2023 Version 58 (replaces version 57) Revision: 23.05.2023

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

- ∘ Trade name: Eugenol PH EUR / 07-3600
- ⋄ Article number: P0117371
- CAS Number:
- 97-53-0
- ∘ EC number: 202-589-1
- ◇ Registration number
- 01-2119971802-33-0020 01-2119971802-33-0020
- 1.2 Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- ⋄ Application of the substance / the mixture Flavour/Fragrance
- 1.3 Details of the supplier of the safety data sheet
- Manufacturer/Supplier:
- Frey & Lau GmbH

Immenhacken 12, D-24558 Henstedt-Ulzburg

Tel:++49-4193-9953 Fax: +49-4193-9955-80

Further information obtainable from:

Sachkundige Person Frey + Lau

info@freylau.com

• 1.4 Emergency telephone number: ++49-40-54.77.99.56 WAKO

. SECTION 2: Hazards identification

- ⋄ 2.1 Classification of the substance or mixture
- Classification according to Regulation (EC) No 1272/2008

Eye Irrit. 2 H319 Causes serious eye irritation.

Skin Sens. 1B H317 May cause an allergic skin reaction.

- 2.2 Label elements
- Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.
- ⋄ Hazard pictograms



GHS07

- Signal word Warning
- Hazard-determining components of labelling:

Eugenol

Hazard statements

H319 Causes serious eye irritation.

H317 May cause an allergic skin reaction.

Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray. P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention. P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- ∘ 2.3 Other hazards
- Results of PBT and vPvB assessment
- ◇ PBT: Not applicable.
- ⋄ vPvB: Not applicable.



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. SECTION 3: Composition/information on ingredients

- ⋄ 3.1 Substances
- ∘ CAS No. Description

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- ◊ Identification number(s)
- ⋄ EC number: 202-589-1
- Acute toxicity estimate (ATE) values
- ∘ CAS-No: 97-53-0
- ◇ EINECS-No: 202-589-1

. SECTION 4: First aid measures

- ⋄ 4.1 Description of first aid measures
- General information: Immediately remove any clothing soiled by the product.
- After skin contact: Immediately rinse with water.
- · After eye contact: Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- After swallowing: If symptoms persist consult doctor.
- · 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.
- 4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

. SECTION 5: Firefighting measures

- 5.1 Extinguishing media
- Suitable extinguishing agents:

CO2, sand, extinguishing powder. Do not use water.

Use fire extinguishing methods suitable to surrounding conditions.

- · For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Special hazards arising from the substance or mixture During heating or in case of fire poisonous gases are produced.
- ⋄ 5.3 Advice for firefighters
- Protective equipment: No special measures required.

. SECTION 6: Accidental release measures

- 6.1 Personal precautions, protective equipment and emergency procedures Not required.
- 6.2 Environmental precautions:

Do not allow product to reach sewage system or any water course.

Inform respective authorities in case of seepage into water course or sewage system.

Do not allow to enter sewers/ surface or ground water.

• 6.3 Methods and material for containment and cleaning up:

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

Treat with 2 % sodium hydroxide solution.

Ensure adequate ventilation.

6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

. SECTION 7: Handling and storage

- ∘ **7.1 Precautions for safe handling** Prevent formation of aerosols.
- Information about fire and explosion protection: No special measures required.

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- ∘ 7.2 Conditions for safe storage, including any incompatibilities
- ⋄ Storage:
- Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Not required.
- Further information about storage conditions: Keep container tightly sealed.
- ∘ Storage class: 10
- 7.3 Specific end use(s) No further relevant information available.

. SECTION 8: Exposure controls/personal protection

- ⋄ 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace: Not required.
- Additional information: The lists valid during the making were used as basis.
- ⋄ 8.2 Exposure controls
- ∘ Appropriate engineering controls No further data; see item 7.
- Individual protection measures, such as personal protective equipment
- General protective and hygienic measures:

Keep away from foodstuffs, beverages and feed.

Immediately remove all soiled and contaminated clothing

Wash hands before breaks and at the end of work.

Avoid contact with the eyes.

Avoid contact with the eyes and skin.

- Respiratory protection: Not required.
- ♦ Hand protection

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

Material of gloves

Multichemical-resistant gloves, Category III acc. to Regulation (EC) 2016/425

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

∘ Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

∘ Eye/face protection Tightly sealed goggles

. SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

⋄ General Information

Physical stateColour:

Odour:

Odour threshold:

Odour unresnoid.

⋄ Melting point/freezing point:

⋄ Flammability

⋄ Lower and upper explosion limit

∘ Partition coefficient n-octanol/water (log value)

⋄ Lower:

○ Upper:

∘ Flash point:

⋄ Decomposition temperature:

∘pH

Solubility

∘ water at 20 °C:

Fluid

Not determined. Characteristic Not determined.

-7,5 °C

Not applicable.

Not determined. Not determined.

124 °C

Not determined.

Mixture is non-polar/aprotic.

1,154 g/l

Not miscible or difficult to mix.

Not determined.

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Density and/or relative density

∘ Density at 20 °C: 1,066 g/cm3 Relative density Not determined. Vapour density Not determined.

⋄ 9.2 Other information

Appearance:

Fluid ⋄ Form:

· Important information on protection of health and environment,

and on safety.

Auto-ignition temperature: Not determined. Explosive properties: Not determined. ⋄ VOC (EC) 0.00 %

Not determined. ⋄ Evaporation rate

Information with regard to physical hazard classes

Void Explosives ∘ Flammable gases Void Void Aerosols Oxidising gases Void Gases under pressure Void Flammable liquids Void ∘ Flammable solids Void ⋄ Self-reactive substances and mixtures Void Pyrophoric liquids Void ∘ Pyrophoric solids Void Self-heating substances and mixtures Void Substances and mixtures, which emit flammable gases in

contact with water Void Oxidising liquids Void Oxidising solids Void Organic peroxides Void Corrosive to metals Void Desensitised explosives Void

. SECTION 10: Stability and reactivity

- ∘ 10.1 Reactivity No further relevant information available.
- ∘ Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known.
- 10.4 Conditions to avoid No further relevant information available.
- ∘ 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known.

. SECTION 11: Toxicological information

- ∘ 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.
- ⋄ LD/LC50 values relevant for classification:

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Oral LD50 >2.000 mg/kg (rat)

Irritation of eyes reizend (rabbit)

- Skin corrosion/irritation Based on available data, the classification criteria are not met.
- Serious eye damage/irritation Causes serious eye irritation.
- Respiratory or skin sensitisation May cause an allergic skin reaction.
- Germ cell mutagenicity Based on available data, the classification criteria are not met.

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- Carcinogenicity Based on available data, the classification criteria are not met.
- Reproductive toxicity Based on available data, the classification criteria are not met.
- STOT-single exposure Based on available data, the classification criteria are not met.
- ∘ STOT-repeated exposure Based on available data, the classification criteria are not met.
- · Aspiration hazard Based on available data, the classification criteria are not met.
- ∘ 11.2 Information on other hazards
- Endocrine disrupting properties

Substance is not listed.

. SECTION 12: Ecological information

- 12.1 Toxicity
- Aquatic toxicity: No further relevant information available.
- 12.2 Persistence and degradability No further relevant information available.
- 12.3 Bioaccumulative potential No further relevant information available.
- ∘ 12.4 Mobility in soil No further relevant information available.
- ∘ 12.5 Results of PBT and vPvB assessment
- ⋄ PBT: Not applicable.
- ∘ vPvB: Not applicable.
- 12.6 Endocrine disrupting properties The product does not contain substances with endocrine disrupting properties.
- Remark: Harmless to fish up to the tested concentration
- ⋄ Additional ecological information:
- General notes:

Water hazard class 1 (German Regulation) (Assessment by list): slightly hazardous for water

Do not allow undiluted product or large quantities of it to reach ground water, water course or sewage system.

. SECTION 13: Disposal considerations

- ⋄ 13.1 Waste treatment methods
- Recommendation Must not be disposed together with household garbage. Do not allow product to reach sewage system.
- Uncleaned packaging:
- · Recommendation: Disposal must be made according to official regulations.

. SECTION 14: Transport information

⋄ ADR, ADN, IMDG, IATA Void

⋄ 14.2 UN proper shipping name

⋄ ADR, ADN, IMDG, IATA Void

⋄ 14.3 Transport hazard class(es)

◇ADR, ADN, IMDG, IATA

Void Class

∘ 14.4 Packing group ⋄ADR, IMDG, IATA Void

Marine pollutant: No

⋄ 14.6 Special precautions for user Not applicable.

instruments Not applicable.

◊ UN "Model Regulation": Void



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. SECTION 15: Regulatory information

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

822.115, Jugendarbeitsschutzverordnung - ArGV 5 und 822.115.2, Verordnung des WBF über gefährliche Arbeiten für Jugendliche sind zu beachten.

ArGV 1 und 822.111.52, Verordnung des WBF über gefährliche und beschwerliche Arbeiten bei Schwangerschaft und Mutterschaft sind nicht zutreffend.

- Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.
- ⋄ Hazard pictograms



GHS07

- Signal word Warning
- Hazard-determining components of labelling:

Eugenoi

- Hazard statements
- H319 Causes serious eye irritation.
- H317 May cause an allergic skin reaction.
- Precautionary statements

P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P280 Wear protective gloves / eye protection / face protection.

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.

Continue rinsing.

P333+P313 If skin irritation or rash occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

- Directive 2012/18/EU
- Named dangerous substances ANNEX I Substance is not listed.
- ◇ REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- ⋄DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment Annex II

Substance is not listed.

- REGULATION (EU) 2019/1148
- Annex I RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

◆ Annex II - REPORTABLE EXPLOSIVES PRECURSORS

Substance is not listed.

Regulation (EC) No 273/2004 on drug precursors

Substance is not listed.

Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug
precursors

Substance is not listed.

- ⋄ National regulations:
- Waterhazard class: Klasse B (Assessment by list)
- ∘ 15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

. SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- Department issuing SDS: Regulatory Affairs
- ∘ Contact: Dr. Maja Zippel
- Date of previous version: 31.01.2022

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Abbreviations and acronyms:

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

ICAO: International Civil Áviation Organisation

ADR: Accord relatif au transport international des marchandises dangereuses par route (European Agreement Concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society) VOC: Volatile Organic Compounds (USA, EU) LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Eye Irrit. 2: Serious eye damage/eye irritation – Category 2 Skin Sens. 1B: Skin sensitisation – Category 1B

* Data compared to the previous version altered.