

Safety data sheet
according to 1907/2006/EC, Article 31

Printing date 08.02.2023

Version 80 (replaces version 79)

Revision: 08.02.2023

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

◊ **1.1 Product identifier**

◊ Trade name: **Vanillin PH Eur. / 06-8448**

◊ Article number: S0403214

◊ CAS Number:

121-33-5

◊ EC number:

204-465-2

◊ Registration number

-

01-2119516040-60-xxxx

◊ **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.

◊ **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 statements

H319 Causes serious eye irritation.

◊ Precautionary statements

P264 Wash thoroughly after handling.

P280 Wear 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.

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

◊ **2.3 Other hazards**

◊ Results of PBT and vPvB assessment

◊ PBT: Not applicable.

◊ vPvB: Not applicable.

. SECTION 3: Composition/information on ingredients

◊ **3.1 Substances**

◊ CAS No. Description

121-33-5 4-Hydroxy-3-Methoxybenzaldehyde

◊ Identification number(s)

◊ EC number: 204-465-2

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- ◊ Nanoform
- ◊ CAS-No: 121-33-5
- ◊ EINECS-No: 204-465-2

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. SECTION 4: First aid measures

- ◊ **4.1 Description of first aid measures**
- ◊ *After inhalation: Supply fresh air; consult doctor in case of complaints.*
- ◊ *After skin contact: Generally the product does not irritate the skin.*
- ◊ *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** No further relevant information available.
- ◊ **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 to enter sewers/ surface or ground water.*
- ◊ **6.3 Methods and material for containment and cleaning up:**
*Dispose contaminated material as waste according to item 13.
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** *Thorough dedusting.*
- ◊ *Information about fire - and explosion protection: No special measures required.*
- ◊ **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: 11*
- ◊ **7.3 Specific end use(s)** No further relevant information available.

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. 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 through 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 state* Solid
- ◊ *Colour:* Not determined.
- ◊ *Odour:* Characteristic
- ◊ *Odour threshold:* Not determined.
- ◊ *Melting point/freezing point:* 83 °C
- ◊ *Flammability* Product is not flammable.
- ◊ *Lower and upper explosion limit*
- ◊ *Lower:* Not determined.
- ◊ *Upper:* Not determined.
- ◊ *Flash point:* 160 °C
- ◊ *Ignition temperature:* 400 °C (121-33-5 4-Hydroxy-3-Methoxybenzaldehyde)
- ◊ *Decomposition temperature:* Not determined.
- ◊ *pH* Mixture is non-polar/aprotic.
- ◊ *Solubility*
- ◊ *water at 25 °C:* 10 g/l
 Not miscible or difficult to mix.
 Not determined.
- ◊ *Partition coefficient n-octanol/water (log value)* Not determined.
- ◊ *Density and/or relative density*
- ◊ *Density at 20 °C:* 1 g/cm³
- ◊ *Relative density* Not determined.
- ◊ *Bulk density:* 342 g/l
- ◊ *Vapour density* Not applicable.
- ◊ *Particle characteristics* See item 3.

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◊ **9.2 Other information**

- ◊ Appearance:
- ◊ Form: Solid
- ◊ Important information on protection of health and environment, and on safety.
- ◊ Auto-ignition temperature: Not determined.
- ◊ Explosive properties: Not determined.
- ◊ VOC (EC) 0,00 %
- ◊ Evaporation rate Not applicable.
- ◊ Information with regard to physical hazard classes
- ◊ Explosives Void
- ◊ Flammable gases Void
- ◊ Aerosols Void
- ◊ 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.
- ◊ **10.2 Chemical stability**
- ◊ 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:
121-33-5 4-Hydroxy-3-Methoxybenzaldehyde
Oral LD50 3.830 mg/kg (rat)
Dermal LD50 >2.000 mg/kg (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 Based on available data, the classification criteria are not met.
- ◊ Germ cell mutagenicity Based on available data, the classification criteria are not met.
- ◊ 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.

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- ◊ *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.*
- ◊ **12.7 Other adverse effects**
- ◊ *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

- ◊ **14.1 UN number or ID number**
- ◊ *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* Void
- ◊ **14.4 Packing group**
- ◊ *ADR, IMDG, IATA* Void
- ◊ **14.5 Environmental hazards:**
- ◊ *Marine pollutant:* No
- ◊ **14.6 Special precautions for user** Not applicable.
- ◊ **14.7 Maritime transport in bulk according to IMO 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 nicht zutreffend.
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 statements
H319 Causes serious eye irritation.
- ◊ Precautionary statements
P264 Wash thoroughly after handling.
P280 Wear 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.
P337+P313 If eye irritation persists: Get medical advice/attention.
- ◊ Directive 2012/18/EU
- ◊ Named dangerous substances - ANNEX I Substance is not listed.
- ◊ 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: 08.02.2023
 - ◊ Version number of previous version: 79
 - ◊ 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 Aviation 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

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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
◇ * Data compared to the previous version altered.

GH