

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.12.2012

Version 68

Revision: 07.12.2012

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

◇ **Product identifier**

- ◇ Trade name: **Cinnamic Aldehyde**
- ◇ Article number: S0400710
- ◇ CAS Number:
104-55-2
- ◇ EC number:
203-213-9
- ◇ Registration number -
- ◇ Relevant identified uses of the substance or mixture and uses advised against No further relevant information available.
- ◇ Application of the substance / the preparation Flavour/Fragrance

◇ **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.de
- ◇ Emergency telephone number: ++49-40-54.77.99.56 WAKO

2. Hazards identification

◇ **Classification of the substance or mixture**

- ◇ Classification according to Regulation (EC) No 1272/2008
Acute Tox. 4 H312 Harmful in contact with skin.
Skin Irrit. 2 H315 Causes skin irritation.
Eye Irrit. 2 H319 Causes serious eye irritation.
Skin Sens. 1A H317 May cause an allergic skin reaction.

◇ Classification according to Directive 67/548/EEC or Directive 1999/45/EC

- Xn; Harmful
R21: Harmful in contact with skin.
- Xi; Irritant
R38: Irritating to skin.
- Xi; Sensitising
R43: May cause sensitisation by skin contact.
- ◇ Information concerning particular hazards for human and environment: Not applicable.

◇ **Label elements**

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



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- ◇ Signal word Warning
- ◇ Hazard statements
H312 Harmful in contact with skin.
H315 Causes skin irritation.
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/protective clothing/eye protection/face protection.

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- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P321 Specific treatment (see on this label).
- P322 Specific measures (see on this label).
- P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

◊ **Other hazards**

- ◊ Results of PBT and vPvB assessment
- ◊ PBT: Not applicable.
- ◊ vPvB: Not applicable.

3. Composition/information on ingredients

- ◊ **Chemical characterization: Substances**
- ◊ CAS No. Description
104-55-2 Cinnamal
- ◊ Identification number(s)
- ◊ EC number: 203-213-9

4. First aid measures

◊ **Description of first aid measures**

- ◊ **General information:**
Immediately remove any clothing soiled by the product.
Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.
- ◊ **After inhalation:**
Supply fresh air and to be sure call for a doctor.
In case of unconsciousness place patient stably in side position for transportation.
- ◊ **After skin contact:** Immediately wash with water and soap and rinse thoroughly.
- ◊ **After eye contact:** Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- ◊ **After swallowing:** Drink plenty of water and provide fresh air. Call for a doctor immediately.
- ◊ **Information for doctor:**
◊ Most important symptoms and effects, both acute and delayed No further relevant information available.
◊ Indication of any immediate medical attention and special treatment needed No further relevant information available.

5. Firefighting measures

- ◊ **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
- ◊ **Special hazards arising from the substance or mixture** No further relevant information available.
- ◊ **Advice for firefighters**
- ◊ **Protective equipment:** No special measures required.

6. Accidental release measures

- ◊ **Personal precautions, protective equipment and emergency procedures** Not required.
- ◊ **Environmental precautions:** Do not allow to enter sewers/ surface or ground water.
- ◊ **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.
Ensure adequate ventilation.

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◊ **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.

7. Handling and storage

◊ **Handling:**

◊ *Precautions for safe handling* Ensure good ventilation/exhaustion at the workplace.

◊ *Information about fire - and explosion protection:* No special measures required.

◊ **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.

◊ **Specific end use(s)** No further relevant information available.

8. Exposure controls/personal protection

◊ **Additional information about design of technical facilities:** No further data; see item 7.

◊ **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.

◊ **Exposure controls**

◊ *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 and skin.

◊ *Respiratory protection:* Not required.

◊ *Protection of hands:*

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*

The multichemical-resistant glove Barrier 02-100 is recommended.

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 protection:* Tightly sealed goggles

9. Physical and chemical properties

◊ **Information on basic physical and chemical properties**

◊ *General Information*

◊ *Appearance:*

Form:

Fluid

Colour:

Not determined.

◊ *Odour:*

Characteristic

◊ *Odour threshold:*

Not determined.

◊ *pH-value:*

Not determined.

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- ◊ Melting point/Melting range: -8 °C
- ◊ Flash point: 138 °C
- ◊ Flammability (solid, gaseous): Not applicable.
- ◊ Ignition temperature: 435 °C
- ◊ Decomposition temperature: Not determined.
- ◊ Self-igniting: Not determined.
- ◊ Danger of explosion: Not determined.
- ◊ Explosion limits:
 - Lower: 1,2 Vol %
 - Upper: 9,4 Vol %
- ◊ Density at 20 °C: 1,05 g/cm³
- ◊ Relative density: Not determined.
- ◊ Vapour density: Not determined.
- ◊ Evaporation rate: Not determined.
- ◊ Solubility in / Miscibility with water at 18 °C:
 - 1,4 g/l
 - Not miscible or difficult to mix.
- ◊ Partition coefficient (n-octanol/water): Not determined.
- ◊ **Other information**: No further relevant information available.
- ◊ log p(O/W): 1,9

10. Stability and reactivity

- ◊ **Reactivity**
- ◊ Chemical stability
- ◊ Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- ◊ **Possibility of hazardous reactions**: No dangerous reactions known.
- ◊ **Conditions to avoid**: No further relevant information available.
- ◊ **Incompatible materials**: No further relevant information available.
- ◊ **Hazardous decomposition products**: No dangerous decomposition products known.

11. Toxicological information

- ◊ **Information on toxicological effects**
- ◊ Acute toxicity:
- ◊ LD/LC50 values relevant for classification:
 - Oral LD50 2220 mg/kg (rat)
 - Dermal LD50 1000-2000 mg/kg (rat)
- ◊ Primary irritant effect:
 - ◊ on the skin: Irritant to skin and mucous membranes.
 - ◊ on the eye: Irritating effect.
- ◊ Sensitization: Sensitization possible through skin contact.
- ◊ Additional toxicological information:
 - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version:
 - The product shows the following dangers according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.
 - Harmful
 - Corrosive

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In addition to local irritant manifestations, there is a narcotic effect when inhaling high concentrations, with high danger of central respiratory arrest.

In addition to local irritant manifestations, there is a narcotic effect when inhaling high concentrations, with the danger of central respiratory arrest.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

12. Ecological information

◊ **Toxicity**

◊ **Aquatic toxicity:**

LC50/96 h >10 mg/l (fish)

◊ **Persistence and degradability** No further relevant information available.

◊ **Behaviour in environmental systems:**

◊ **Bioaccumulative potential** No further relevant information available.

◊ **Mobility in soil** No further relevant information available.

◊ **Ecotoxicological effects:**

◊ **Remark:** Harmless to fish up to the tested concentration

◊ **Additional ecological information:**

◊ **General notes:**

Water hazard class 1 (German Regulation) (Self-assessment): slightly hazardous for water

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

◊ **Results of PBT and vPvB assessment**

◊ **PBT:** Not applicable.

◊ **vPvB:** Not applicable.

◊ **Other adverse effects** No further relevant information available.

13. Disposal considerations

◊ **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.

14. Transport information

◊ **UN-Number**

◊ **ADR, ADN, IMDG, IATA** Void

◊ **UN proper shipping name**

◊ **ADR, ADN, IMDG, IATA** Void

◊ **Transport hazard class(es)**

◊ **ADR, ADN, IMDG, IATA** Void

◊ **Class** Void

◊ **Packing group** Void

◊ **ADR, IMDG, IATA** Void

◊ **Environmental hazards:**

◊ **Marine pollutant:** No

◊ **Special precautions for user** Not applicable.

◊ **Transport in bulk according to Annex II of MARPOL73/78**

◊ **and the IBC Code** Not applicable.

◊ **UN "Model Regulation":** -

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15. Regulatory information

- ◊ **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- ◊ Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.
- ◊ Hazard pictograms



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- ◊ Signal word Warning
- ◊ Hazard statements
 - H312 Harmful in contact with skin.
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- ◊ Precautionary statements
 - P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 - P280 Wear protective gloves/protective clothing/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.
 - P321 Specific treatment (see on this label).
 - P322 Specific measures (see on this label).
 - P501 Dispose of contents/container in accordance with local/regional/national/international regulations.
- ◊ **Chemical safety assessment:** A Chemical Safety Assessment has not been carried out.

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 MSDS:** Regulatory Affairs
- ◊ **Contact:** Dr. Maja Zippel
- ◊ **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 Organization
 - ADR: Accord européen sur le transport 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 Harmonized 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)
 - LC50: Lethal concentration, 50 percent
 - LD50: Lethal dose, 50 percent
- ◊ * Data compared to the previous version altered.