

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 07.12.2012

Version 12

Revision: 07.12.2012

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

- ◊ **Product identifier**
- ◊ Trade name: **Garden Strawberry Flv**
- ◊ Article number: P0607251
- ◊ 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 The product is not classified according to the CLP regulation.
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- ◊ Classification according to Directive 67/548/EEC or Directive 1999/45/EC Not applicable.
- ◊ Information concerning particular hazards for human and environment:
The product does not have to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.
- ◊ Classification system:
The classification is according to the latest editions of the EU-lists, and extended by company and literature data.
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- ◊ **Label elements**
- ◊ Labelling according to Regulation (EC) No 1272/2008 Void
- ◊ Hazard pictograms Void
- ◊ Signal word Void
- ◊ Hazard statements
Safety data sheet available on request.
- ◊ **Other hazards**
- ◊ Results of PBT and vPvB assessment
- ◊ PBT: Not applicable.
- ◊ vPvB: Not applicable.

3. Composition/information on ingredients

- ◊ **Chemical characterization: Mixtures**
- ◊ Description: Mixture of substances listed below with nonhazardous additions.
- ◊ Dangerous components:
CAS: 3658-77-3 4-Hydroxy-2,5-dimethyl-3(2H)-furanone 1-2,49%
EINECS: 222-908-8 Xn R22
Acute Tox. 4, H302
- ◊ Additional information: For the wording of the listed risk phrases refer to section 16.

4. First aid measures

- ◊ **Description of first aid measures**
- ◊ General information: No special measures required.
- ◊ After inhalation: Supply fresh air; consult doctor in case of complaints.
- ◊ After skin contact: Generally the product does not irritate the skin.

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- ◊ After eye contact: Rinse opened eye for several minutes under running water.
- ◊ After swallowing: If symptoms persist consult doctor.
- ◊ 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.
- ◊ 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:**
Dilute with plenty of water.
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).
- ◊ **Reference to other sections**
No dangerous substances are released.
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 No special measures required.
- ◊ 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: None.
- ◊ **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:**
The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- ◊ **Additional information:** The lists valid during the making were used as basis.
- ◊ **Exposure controls**
- ◊ **Personal protective equipment:**
- ◊ **General protective and hygienic measures:** The usual precautionary measures are to be adhered to when handling chemicals.
- ◊ **Respiratory protection:** Use suitable respiratory protective device in case of insufficient ventilation.

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- ◊ **Protection of hands:**
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.
- ◊ **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:** Goggles recommended during refilling

9. Physical and chemical properties

◊ Information on basic physical and chemical properties

◊ General Information

◊ Appearance:

Form: Fluid

Colour: Yellowish

◊ Odour: Characteristic

◊ Odour threshold: Not determined.

◊ pH-value: Not determined.

◊ Melting point/Melting range: Undetermined.

◊ Flash point: 96 °C

◊ Flammability (solid, gaseous): Not applicable.

◊ Ignition temperature:

Decomposition temperature: Not determined.

◊ Self-igniting: Not determined.

◊ Danger of explosion: Not determined.

◊ Explosion limits:

Lower: Not determined.

Upper: Not determined.

◊ Density at 20 °C: 1,038 g/cm³

◊ Relative density: Not determined.

◊ Vapour density: Not determined.

◊ Evaporation rate: Not determined.

◊ Solubility in / Miscibility with water:

Soluble.

◊ Partition coefficient (n-octanol/water): Not determined.

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

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.

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11. Toxicological information

◊ Information on toxicological effects

- ◊ Acute toxicity:
- ◊ Primary irritant effect:
- ◊ on the skin: No irritant effect.
- ◊ on the eye: No irritating effect.
- ◊ Sensitization: No sensitizing effects known.
- ◊ Additional toxicological information:

The product is not subject to classification according to the calculation method of the General EU Classification Guidelines for Preparations as issued in the latest version.

When used and handled according to specifications, the product does not have any harmful effects to our experience and the information provided to us.

The substance is not subject to classification according to the latest version of the EU lists.

12. Ecological information

◊ Toxicity

- ◊ Aquatic toxicity: No further relevant information available.
- ◊ 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: Smaller quantities can be disposed of with household waste.

◊ Uncleaned packaging:

- ◊ Recommendation: Disposal must be made according to official regulations.
- ◊ Recommended cleansing agents: Water, if necessary together with cleansing agents.

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

- ◊ ADR, IMDG, IATA: Void

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- ◊ **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":** -

15. Regulatory information

- ◊ **Safety, health and environmental regulations/legislation specific for the substance or mixture**
- ◊ **Labelling according to Regulation (EC) No 1272/2008:** Void
- ◊ **Hazard pictograms:** Void
- ◊ **Signal word:** Void
- ◊ **Hazard statements:** Safety data sheet available on request.
- ◊ **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.

- ◊ **Relevant phrases:**
H302 Harmful if swallowed.
R22 Harmful if swallowed.
- ◊ **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
- ◊ * **Data compared to the previous version altered.**