

Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 17.01.2012


Version 12

Revision: 17.01.2012

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

- ◊ **Product identifier**
- ◊ Trade name: **Bitter Almond Flavour**
- ◊ Article number: P0610154
- ◊ Registration number -
- ◊ Relevant identified uses of the substance or mixture and uses advised against
- ◊ 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
STOT SE 3 H335 May cause respiratory irritation.
- ◊ Classification according to Directive 67/548/EEC or Directive 1999/45/EC
Xn; Harmful
R20/22: Harmful by inhalation and if swallowed.
Xi; Irritant
R36/37: Irritating to eyes and respiratory system.
- ◊ Information concerning particular hazards for human and environment:
The product has 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.
- ◊ **Label elements**
- ◊ Labelling according to Regulation (EC) No 1272/2008 The product is classified and labelled according to the CLP regulation.
- ◊ Hazard pictograms

GHS07
- ◊ Signal word Warning
- ◊ Hazard statements
H335 May cause respiratory irritation.
- ◊ Precautionary statements
P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
P312 Call a POISON CENTER or doctor/physician if you feel unwell.
P405 Store locked up.
P403+P233 Store in a well-ventilated place. Keep container tightly closed.
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.

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3. Composition/information on ingredients

- ◊ **Chemical characterization: Mixtures**

- ◊ Description: Mixture of substances listed below with nonhazardous additions.

- ◊ Dangerous components:

CAS: 100-52-7	Benzaldehyde	20-24,99%
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EINECS: 202-860-4	Xn R20/22; Xi R36/37	
	Acute Tox. 4, H332; STOT SE 3, H335	

CAS: 100-51-6	Benzyl alcohol	20-24,99%
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EINECS: 202-859-9	Xn R20/22	
	Acute Tox. 4, H302; Acute Tox. 4, H332	

- ◊ 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:

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. If required, provide artificial respiration. Keep patient warm. Consult doctor if symptoms persist.

In case of unconsciousness place patient stably in side position for transportation.

- ◊ 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: 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.

- ◊ 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: Mouth respiratory protective device.

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.

- ◊ **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.

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7. Handling and storage

- ◊ **Handling:**
- ◊ *Precautions for safe handling Prevent formation of aerosols.*
- ◊ *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:*
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:**
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:**
In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.
- ◊ **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.*
- ◊ **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:**
Safety glasses
Tightly sealed goggles

9. Physical and chemical properties

- ◊ **Information on basic physical and chemical properties**
- ◊ **General Information**
- ◊ **Appearance:**
- Form: *Fluid*
- Colour: *Orange*
- ◊ **Odour:** *Characteristic*
- ◊ **Odour threshold:** *Not determined.*
- ◊ **pH-value:** *Not determined.*
- ◊ **Melting point/Melting range:** *Undetermined.*
- ◊ **Flash point:** *72°C*

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- ◊ **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:** 1,041 g/cm³
- ◊ **Relative density:** Not determined.
- ◊ **Vapour density:** Not determined.
- ◊ **Evaporation rate:** Not determined.
- ◊ **Solubility in / Miscibility with water:** Not miscible or difficult to mix.
- ◊ **Segregation 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.

11. Toxicological information

- ◊ **Information on toxicological effects**
- ◊ **Acute toxicity:**
- ◊ **Primary irritant effect:**
 - on the skin: No irritant effect.
 - on the eye: Irritating effect.
- ◊ **Sensitization:** No sensitizing effects known.
- ◊ **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
 - Irritant
 - 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.

12. Ecological information

- ◊ **Toxicity**
- ◊ **Aquatic toxicity:** No further relevant information available.

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- ◊ **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 2 (German Regulation) (Self-assessment): hazardous for water
Do not allow product to reach ground water, water course or sewage system.
Danger to drinking water if even small quantities leak into the ground.
- ◊ **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
 - ◊ **UN proper shipping name**
 - ◊ ADR, ADN, IMDG, IATA
 - ◊ **Transport hazard class(es)**
 - ◊ ADR, ADN, IMDG, IATA
 - ◊ **Class**
 - ◊ **Packing group**
 - ◊ ADR, IMDG, IATA
 - ◊ **Environmental hazards:**
 - ◊ **Marine pollutant:**
 - ◊ **Special precautions for user**
 - ◊ **Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**
 - ◊ **UN "Model Regulation":**
- | | |
|--|-----------------|
| | Void |
| | Void |
| | Void |
| | Void |
| | Void |
| | No |
| | Not applicable. |
| | Not applicable. |
| | - |

15. Regulatory information

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



GHS07

- ◊ **Signal word** Warning
- ◊ **Hazard statements**
H335 May cause respiratory irritation.

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◊ **Precautionary statements**

- P261 Avoid breathing dust/fume/gas/mist/vapours/spray.
 P304+P340 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
 P312 Call a POISON CENTER or doctor/physician if you feel unwell.
 P405 Store locked up.
 P403+P233 Store in a well-ventilated place. Keep container tightly closed.
 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.

◊ **Relevant phrases**

- H302 Harmful if swallowed.
 H332 Harmful if inhaled.
 H335 May cause respiratory irritation.

- R20/22 Harmful by inhalation and if swallowed.
 R36/37 Irritating to eyes and respiratory system.

◊ **Department issuing MSDS: Regulatory Affairs**

◊ **Contact: Dr. Maja Zippel**

◊ **Abbreviations and acronyms:**

- ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
 RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Air Transport Association
 ICAO: International Civil Aviation Organization
 GHS: Globally Harmonized System of Classification and Labeling of Chemicals

◊ *** Data compared to the previous version altered.**