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Safety data sheet

according to 1907/2006/EC, Article 31

Printing date 09.03.2020

Version 67

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. SECTION 1: Identification of the substance/mixture and of the company/undertaking • 1.1 Product identifier Trade name: Chocolate Flavour Article number: P0610483 Registration number -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@frevlau.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 product is classified and labelled according to the CLP regulation. Hazard pictograms $\langle \mathbf{i} \rangle$ 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 rinsina. P337+P313 If eye irritation persists: Get medical advice/attention. Additional information: EUH208 Contains 3-Methylbutyraldehyde, 5-Methyl-2-phenyl-2-hexenal, 2,3-Butanedione. May produce an allergic reaction. • 2.3 Other hazards Results of PBT and vPvB assessment ◇ PBT: Not applicable. vPvB: Not applicable. . SECTION 3: Composition/information on ingredients • 3.2 Chemical characterisation: Mixtures Description: Mixture of substances listed below with nonhazardous additions. Dangerous components:
 >20-25%

CAS: 121-33-5 4-Hydroxy-3-Methoxybenzaldehyde EINECS: 204-465-2 Eye Irrit. 2, H319

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(Contd. of page 1) CAS: 513-86-0 3-Hydroxy-2-butanone 1-2,5% EINECS: 208-174-1 Flam. Liq. 3, H226; STOT RE 2, H373; Eye Dam. 1, H318 CAS: 590-86-3 3-Methylbutyraldehyde ≥0,25-<1% EINECS: 209-691-5 Flam. Liq. 2, H225; Aquatic Chronic 2, H411; Eye Irrit. 2, H319; Skin Sens. 1, H317; STOT SE 3, H335 CAS: 21834-92-4 5-Methyl-2-phenyl-2-hexenal ≥0.1-<1% EINECS: 244-602-3 Skin Sens. 1B, H317 CAS: 431-03-8 2.3-Butanedione ≥0.1-<1% EINECS: 207-069-8 Flam. Liq. 2, H225; Acute Tox. 3, H331; STOT RE 2, H373; Eye Dam. 1, H318; Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317

• Additional information: For the wording of the listed hazard phrases refer to section 16.

. 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 4

• Suitable extinguishing agents: CO2, sand, extinguishing powder. Do not use water.

- 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:

Dilute with plenty of water.

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. 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

Ensure good ventilation/exhaustion at the workplace.

No special precautions are necessary if used correctly.

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

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Trade name: Chocolate Flavour

 Information about storage in one content 	oms and receptacles: No special requirements. common storage facility: Not required. conditions: Keep container tightly sealed.
• • • • •	
. SECTION 8: Exposure contro	· · · ·
Additional information about design	n of technical facilities: No further data; see item 7.
 8.1 Control parameters Ingredients with limit values that re 	quire monitoring at the workplace:
431-03-8 2,3-Butanedione	
TWA Short-term value: 0,36 mg/m³ Long-term value: 0,07 mg/m³ ∘ Additional information: The lists val	
 Protection of hands: Protective gloves The glove material has to be imper Selection of the glove material on of Material of gloves The selection of the suitable glov manufacturer to manufacturer. As be calculated in advance and has t The multichemical-resistant glove the Penetration time of glove material 	ges and feed. contaminated clothing the end of work. in. e respiratory protective device in case of insufficient ventilation. meable and resistant to the product/ the substance/ the preparation. consideration of the penetration times, rates of diffusion and the degradation es does not only depend on the material, but also on further marks of quality and varies from the product is a preparation of several substances, the resistance of the glove material can not herefore to be checked prior to the application.
. SECTION 9: Physical and che	emical properties
 9.1 Information on basic physical General Information Appearance: Form: Colour: Odour: Odour threshold: 	Fluid Brown Characteristic Not determined.
	Not determined. Undetermined.

◦ Flash point:



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◇Flammability (solid, gas):	Not applicable.	
 Decomposition temperature: 	Not determined.	
◇ Auto-ignition temperature:	Not determined.	
◦ Explosive properties:	Not determined.	
∘Explosion limits: Lower: Upper:	Not determined. Not determined.	
 Density at 20 °C: Relative density Vapour density Evaporation rate 	1,074 g/cm ³ Not determined. Not determined. Not determined.	
 Solubility in / Miscibility with water: 	Soluble.	
◦ Partition coefficient: n-octanol/water: ◦ VOC (EC) ◦ 9.2 Other information	Not determined. 77,34 % No further relevant information available.	

. 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 toxicological effects
- Acute toxicity Based on available data, the classification criteria are not met.
- >LD/LC50 values relevant for classification:

ATE (Acute Toxicity Estimates)

Inhalative LC50 3.000 mg/l

- Primary irritant effect:
- 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.
- CMR effects (carcinogenity, mutagenicity and toxicity for reproduction)
- Germ cell mutagenicity Based on available data, the classification criteria are not met.
- $^{\circ}$ 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.

. SECTION 12: Ecological information

12.1 Toxicity

◇ Aquatic toxicity: No further relevant information available.

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• 12.2 Persistence and degradabilit	y No further relevant information available.
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- ° 12.3 Bioaccumulative potential No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- Ecotoxical 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.

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

• 12.6 Other adverse effects No further relevant information available.

. 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.
- Recommended cleansing agents: Water, if necessary together with cleansing agents.

◇14.1 UN-Number		
◇ADR, ADN, IMDG, IATA	Void	
• 14.2 UN proper shipping name		
◇ ADR, ADN, İMDG, İATA	Void	
○ 14.3 Transport hazard class(es)		
◇ADR, ADN, IMDG, IATA		
	Void	
◦14.4 Packing group		
◇ ADR, IMDG, IATA	Void	
• 14.5 Environmental hazards:		
<i>◇Marine pollutant:</i>	No	
• 14.6 Special precautions for user	Not applicable.	
• 14.7 Transport in bulk according to Annex II or	f Marpol and	
the IBC Code	Not applicable.	
◊ UN "Model Regulation":	Void	

. SECTION 15: Regulatory information

° 15.1 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

 $\langle ! \rangle$ GHS07

Signal word Warning

- ◇ Hazard statements
- H319 Causes serious eye irritation. • Precautionary statements
- P264 Wash thoroughly after handling.

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Trade name: Chocolate Flavour

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 None of the ingredients is listed.

REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3

• 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.

5 5	
 Relevant phrases H225 Highly flammable liquid and vapour. H226 Flammable liquid and vapour. H302 Harmful if swallowed. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H319 Causes serious eye irritation. H331 Toxic if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. H411 Toxic to aquatic life with long lasting effects. 	
Department issuing SDS: Regulatory Affairs	
◇ Department issuing SDS: Regulatory Affairs ◇ Contact: Dr. Maia Zinnel	
RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport	port of
Dangerous Goods by Rail)	
ICAO: International Civil Aviation Organisation ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Go	odo by
Road)	ous by
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	
ELINCS: European List of Notified 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	
Flam. Liq. 2: Flammable liquids – Category 2 Flam. Liq. 3: Flammable liquids – Category 3	
Acute Tox. 4: Acute toxicity - oral – Category 4	
Acute Tox. 3: Acute toxicity - inhalation – Category 3	
Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1	
Eye Jani. 1. Serious eye damage/eye initiation – Category 1 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2	
Skin Sens. 1: Skin sensitisation – Category 1	
Skin Sens. 1B: Skin sensitisation – Category 1B	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2	
Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2	
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