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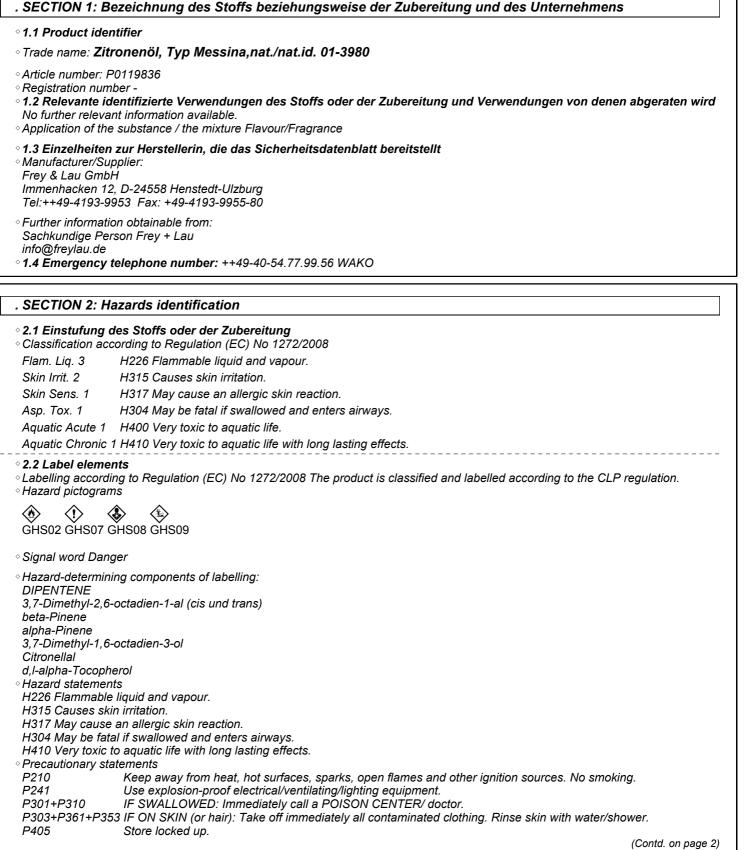
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FLAVOURS





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Trade name: Zitronenöl, Typ Messina, nat./nat.id. 01-3980

| P501 | Dispose of contents/container in accordance with local/regional/national/international regulations. | |
|---|---|--|
| 2.3 Other had a second seco | azards | |
| Results of P | BT and vPvB assessment | |
| ◇ PBT: Not ap | plicable. | |
| ◊ vPvB · Not ai | policable | |

«VPVB: Not applicable.

. SECTION 3: Composition/information on ingredients

° 3.2 Zubereitungen

 Description: Mixture of substances listed below with nonhazardous additions. Dangerous components:
 CAS: 138-86-3 DIPENTENE >50-100% EINECS: 205-341-0 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317 CAS: 5392-40-5 3,7-Dimethyl-2,6-octadien-1-al (cis und trans) >5-<10% EINECS: 226-394-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 CAS: 18172-67-3 beta-Pinene >2.5-5% EINECS: 242-060-2 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317 CAS: 99-85-4 p-Mentha-1,4-diene 1-2,5% EINECS: 202-794-6 Flam. Liq. 3, H226; Asp. Tox. 1, H304 alpha-Pinene CAS: 7785-26-4 0,25-<1% EINECS: 232-077-3 Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400; Aquatic Chronic 1, H410; Skin Irrit. 2, H315; Skin Sens. 1B, H317 CAS: 78-70-6 3,7-Dimethyl-1,6-octadien-3-ol 0,1-<1% EINECS: 201-134-4 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1B, H317 CAS: 106-23-0 Citronellal 0,1-<1% EINECS: 203-376-6 Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317 CAS: 10191-41-0 d,l-alpha-Tocopherol 0,1-<1% EINECS: 233-466-0 Skin Sens. 1B, 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

General information: Immediately remove any clothing soiled by the product.

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. Then consult a doctor.

After swallowing: Drink plenty of water and provide fresh air. Call for a doctor immediately.

•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.
- For safety reasons unsuitable extinguishing agents: Water with full jet
- 5.2 Besondere vom Stoff oder der Zubereitung ausgehende Gefahren No further relevant information available.

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• 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 Wear protective equipment. Keep unprotected persons away.
 6.2 Environmental precautions:
- Inform respective authorities in case of seepage into water course or sewage system.
- 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.
- Do not flush with water or aqueous cleansing agents
- 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.
- Information about fire and explosion protection: Keep ignition sources away - Do not smoke. Protect against electrostatic charges.
- 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: 3

• 7.3 Specific end use(s) No further relevant information available.

. SECTION 8: Exposure controls/personal protection

- Additional information about design of technical facilities: No further data; see item 7.
- 8.1 Control parameters
- Ingredients with limit values that require monitoring at the workplace:

8.2 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 skin. Avoid contact with the eyes and skin.
- Respiratory protection: Not required.
- Protection of hands:
- Protective gloves The glove material h

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

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◦ Material of gloves The multichemical-resistant glove Barrier 02-100 is recommended.

Penetration time of glove material

The exact break trough time has to be found out by the manufacturer of the protective gloves and has to be observed.

◦ Eye protection: Tightly sealed goggles

. SECTION 9: Physical and chemical properties

| 9.1 Information on basic physical General Information | l and chemical properties |
|---|---|
| Appearance: Form: Colour: Odour: Odour threshold: | Fluid Yellow Characteristic Not determined. |
| ◦ pH-value:> Melting point/freezing point: | Not determined. Undetermined. |
| ∘ Flash point: | 52 °C |
| ∘ Flammability (solid, gas): | Not applicable. |
| Ignition temperature: | |
| Decomposition temperature: | Not determined. |
| ◇Auto-ignition temperature: | Not determined. |
| ◦ Explosive properties: | Product is not explosive. However, formation of explosive air/vapour mixtures are possible. |
| ◦ Explosion limits: Lower: Upper: | Not determined. Not determined. |
| ○ Density at 20 °C: ○ Relative density ○ Vapour density ○ Evaporation rate | 0,848 g/cm ³ Not determined. Not determined. Not determined. |
| Solubility in / Miscibility with water: | Not miscible or difficult to mix. |
| Partition coefficient: n-octanol/water VOC (EC) 9.2 Other information | r: Not determined. 98,52 % 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.

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|--|--------------------|
| ◊ Primary irritant effect: | |
| Skin corrosion/irritation | |
| Causes skin irritation. | |
| Serious eye damage/irritation Based on available data, the classification criteria are not met. | |
| | |
| May cause an allergic skin reaction. | |
| CMR effects (carcinogenity, mutagenicity and toxicity for reproduction) Germ cell mutagenicity Based on available data, the classification criteria are not met. | |
| Carcinogenicity Based on available data, the classification criteria are not met. Carcinogenicity Based on available data, the classification criteria are not met. | |
| Carcinogenicity 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 | |
| May be fatal if swallowed and enters airways. | |
| | |
| SECTION 42: Feelexied information | |
| . 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. | |
| | |
| | |
| ◦ Ecotoxical effects: | |
| Ecotoxical effects: Remark: | |
| Ecotoxical effects: Remark: Very toxic for fish | |
| ▷ Ecotoxical effects: ▷ Remark: Very toxic for fish Toxic for fish | |
| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. | |
| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. Toxic for water fleas | |
| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. Toxic for water fleas Very toxic for algae | |
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| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. Toxic for water fleas Very toxic for algae Toxic for algae Additional ecological information: General notes: Water hazard class 2 (German Regulation) (Self-assessment): hazardous for water | |
| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. Toxic for water fleas Very toxic for algae Toxic for algae 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. | |
| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. Toxic for water fleas Very toxic for algae Toxic for algae 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. | |
| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. Toxic for water fleas Very toxic for algae Toxic for algae 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. Also poisonous for fish and plankton in water bodies. | |
| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. Toxic for water fleas Very toxic for algae Toxic for algae 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. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms | |
| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. Toxic for water fleas Very toxic for algae Toxic for algae 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. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms 12.5 Results of PBT and vPvB assessment | |
| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. Toxic for water fleas Very toxic for algae Toxic for algae 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. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms 12.5 Results of PBT and vPvB assessment PBT: Not applicable. | |
| Ecotoxical effects: Remark: Very toxic for fish Toxic for fish Very toxic for water fleas. Toxic for water fleas Very toxic for algae Toxic for algae 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. Also poisonous for fish and plankton in water bodies. Very toxic for aquatic organisms 12.5 Results of PBT and vPvB assessment | |

- •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 ◇ADR, IMDG, IATA

UN1993

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|--|--|
| • 14.2 UN proper shipping name | |
| ◇ADR | FLAMMABLE LIQUID, N.O.S. (DIPENTENE, beta-Pinene), ENVIRONMENTALLY HAZARDOUS |
| ◇IMDG | FLAMMABLE LIQUID, N.O.S. (DIPENTENE, beta-Pinene), MARINE POLLUTANT |
| ◇IATA | FLAMMABLE LIQUID, N.O.S. (containing DIPENTENE, beta- Pinene) |
| ◦ 14.3 Transport hazard class(es) | , |
| ◇ADR | |
| ◊ Class | 3 (F1) Flammable liquids. |
| ∘Label | 3 |
| ◇IMDG, IATA | |
| ◊ Class | 3 Flammable liquids. |
| ◇Label | 3 |
| ◊ 14.4 Packing group | |
| ∧ ADR, IMDG, IATA | |
| ∘ 14.5 Environmental hazards: | Product contains environmentally hazardous substances: DIPENTENE, beta-Pinene |
| ◊ Marine pollutant: | Yes |
| | Symbol (fish and tree) |
| Special marking (ADR): | Symbol (fish and tree) |
| 14.6 Special precautions for user | Warning: Flammable liquids. |
| ○ Danger code (Kemler): | 30 |
| | F-E, <u>S-E</u> |
| Stowage Category | A |
| 14.7 Transport in bulk according to Annex II of Marpol and the IPP on the second second | |
| the IBC Code | Not applicable. |
| Transport/Additional information: | |
| ◇ADR | |
| | 5L |
| ◇ Excepted quantities (EQ) | Code: E1 |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 1000 ml |
| ◊ Transport category | 3 |
| ◊ Tunnel restriction code | D/E |
| ◊ IMDG | |
| ◊ Limited quantities (LQ) | 5L |
| ∘Excepted quantities (ĚQ) | Code: E1 |
| | Maximum net quantity per inner packaging: 30 ml |
| | Maximum net quantity per outer packaging: 1000 ml |
| ◊ UN "Model Regulation": | UN 1993 FLAMMABLE LIQUID, N.O.S. (DIPENTENE, BETA- |
| | PINENE), 3, III, ENVIRONMENTALLY HAZARDOUS |

. SECTION 15: Regulatory information

◦ 15.1 Vorschriften zu Sicherheit, Gesundheits- und Umweltschutz/spezifische Rechtsvorschriften für den Stoff oder die Zubereitung

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

 \bigotimes GHS02 GHS07 GHS08 GHS09

Signal word Danger

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Hazard-determining components of labelling: DIPENTENE 3,7-Dimethyl-2,6-octadien-1-al (cis und trans) beta-Pinene alpha-Pinene 3,7-Dimethyl-1,6-octadien-3-ol Citronellal d,l-alpha-Tocopherol Hazard statements H226 Flammable liquid and vapour. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H304 May be fatal if swallowed and enters airways. H410 Very toxic to aquatic life with long lasting effects. Precautionary statements Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P210 Use explosion-proof electrical/ventilating/lighting equipment. P241 IF SWALLOWED: Immediately call a POISON CENTER/ doctor. P301+P310 P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower. P405 Store locked up. P501 Dispose of contents/container in accordance with local/regional/national/international regulations. ◊ Directive 2012/18/EU Named dangerous substances - ANNEX I None of the ingredients is listed. Seveso category E1 Hazardous to the Aquatic Environment P5c FLAMMABLE LIQUIDS Qualifying quantity (tonnes) for the application of lower-tier requirements 100 t ◦ Qualifying quantity (tonnes) for the application of upper-tier requirements 200 t ◇ REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3 National regulations: Klassierung wassergefährdender Flüssigkeiten: Klasse A (Self-assessment) ◊ VOC (EU) 98,52 % VOCV (CH) 82.51 % • 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. Relevant phrases H226 Flammable liquid and vapour. H304 May be fatal if swallowed and enters airways. H315 Causes skin irritation. H317 May cause an allergic skin reaction. H319 Causes serious eye irritation. H400 Very toxic to aquatic life. H410 Very toxic to aquatic life with long lasting effects. Department issuing SDS: 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 Organisation 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

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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) GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany) VOC: Volatile Organic Compounds (USA, EU) PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Flam. Liq. 3: Flammable liquids – Category 3 Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Irrit. 2: Serious eye damage/eye irritation - Category 2 Skin Sens. 1: Skin sensitisation - Category 1 Skin Sens. 1B: Skin sensitisation – Category 1B Asp. Tox. 1: Aspiration hazard – Category 1 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard - Category 1 ◦ * Data compared to the previous version altered.



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