

Safety data sheet
according to Regulation (EC) No 1907/2006, Article 31

Printing date 02.09.2025

Version 10 (replaces version 9)

Revision: 02.09.2025

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

◊ **1.1 Product identifier**

◊ Trade name: **Terpineol II (MU)/ 01-6372-00**

◊ Article number: S0404433

◊ Registration number

-
01-2119553062-49-0015

◊ **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@freylau.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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Aquatic Chronic 3 H412 Harmful to aquatic life with long lasting effects.

◊ **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



GHS07

◊ Signal word Warning

◊ Hazard statements

H315 Causes skin irritation.

H319 Causes serious eye irritation.

H412 Harmful to aquatic life with long lasting effects.

◊ Precautionary statements

P273 Avoid release to the environment.

P280 Wear protective gloves / 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.

P332+P313 If skin irritation occurs: Get medical advice/attention.

P337+P313 If eye irritation persists: Get medical advice/attention.

P501 Dispose of contents/container in accordance with local/regional/national/international regulations.

◊ Additional information:

EUH208 Contains Terpinolene, Longifolene, trans-Anethole. May produce an allergic reaction.

◊ **2.3 Other hazards**

◊ Results of PBT and vPvB assessment

◊ PBT: Not applicable.

◊ vPvB: Not applicable.

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. SECTION 3: Composition/information on ingredients

◊ **3.2 Mixtures**

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

◊ **Dangerous components:**

CAS: 8000-41-7	Terpineol	>50-100%
EINECS: 232-268-1	Skin Irrit. 2, H315; Eye Irrit. 2, H319	
CAS: 586-62-9	Terpinolene	≥0,25-<1%
EINECS: 209-578-0	Flam. Liq. 3, H226; Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1B, H317	
CAS: 475-20-7	Longifolene	≥0,1-<0,25%
EINECS: 207-491-2	Asp. Tox. 1, H304; Aquatic Acute 1, H400 (M=1); Aquatic Chronic 1, H410 (M=1); Skin Sens. 1B, H317	
CAS: 4180-23-8	trans-Anethole	≥0,1-<1%
EINECS: 224-052-0	Skin Sens. 1B, H317; Aquatic Chronic 3, H412	

◊ **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:** 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.

◊ **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 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:**

Do not allow product to reach sewage system or any water course.

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 section 13.

Treat with 2 % sodium hydroxide solution.

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.

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See Section 13 for disposal information.

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. 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.

◊ **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: 10

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

. SECTION 8: Exposure controls/personal protection

◊ **8.1 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.

◊ **8.2 Exposure controls**

◊ Appropriate engineering controls No further data; see section 7.

◊ Individual protection measures, such as 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.

◊ Hand protection

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 Multichemical-resistant gloves, Category III acc. to Regulation (EC) 2016/425

◊ 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/face protection Tightly sealed goggles

. SECTION 9: Physical and chemical properties

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

◊ General Information

◊ Physical state

Liquid

◊ Colour:

Nearly colourless

◊ Odour:

Characteristic

◊ Odour threshold:

Not determined.

◊ Melting point/freezing point:

Undetermined.

◊ Flammability

Not applicable.

◊ Lower and upper explosion limit

◊ Lower:

Not determined.

◊ Upper:

Not determined.

◊ Flash point:

90 °C

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◊ Decomposition temperature:	Not determined.
◊ pH	Mixture is non-polar/aprotic.
◊ Solubility	
◊ water:	Not miscible or difficult to mix.
◊ Partition coefficient n-octanol/water (log value)	Not determined.
◊ Density and/or relative density	
◊ Density at 20 °C:	0,934 g/cm ³
◊ Relative density	Not determined.
◊ Vapour density	Not determined.
◊ 9.2 Other information	
◊ Appearance:	
◊ Form:	Viscous
◊ Important information on protection of health and environment, and on safety.	
◊ Ignition temperature:	Not determined.
◊ Explosive properties:	Not determined.
◊ Solvent separation test:	
◊ VOC (EC)	99,37 %
◊ Evaporation rate	Not determined.
◊ Information with regard to physical hazard classes	
◊ Explosives	Void
◊ Flammable gases	Void
◊ Aerosols	Void
◊ Oxidising gases	Void
◊ Gases under pressure	Void
◊ Flammable liquids	Void
◊ Flammable solids	Void
◊ Self-reactive substances and mixtures	Void
◊ Pyrophoric liquids	Void
◊ Pyrophoric solids	Void
◊ Self-heating substances and mixtures	Void
◊ Substances and mixtures, which emit flammable gases in contact with water	Void
◊ Oxidising liquids	Void
◊ Oxidising solids	Void
◊ Organic peroxides	Void
◊ Corrosive to metals	Void
◊ Desensitised explosives	Void

. 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 hazard classes as defined in Regulation (EC) No 1272/2008**
- ◊ Acute toxicity Based on available data, the classification criteria are not met.
- ◊ Primary irritant effect:
- ◊ Skin corrosion/irritation Causes skin irritation.

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- ◊ **Serious eye damage/irritation** Causes serious eye irritation.
- ◊ **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- ◊ **Germ cell mutagenicity** Based on available data, the classification criteria are not met.
- ◊ **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.
- ◊ **11.2 Information on other hazards**
- ◊ **Endocrine disrupting properties**
- None of the ingredients is listed.

. 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.
- ◊ **12.5 Results of PBT and vPvB assessment**
- ◊ **PBT:** Not applicable.
- ◊ **vPvB:** Not applicable.
- ◊ **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- ◊ **12.7 Other adverse effects**
- ◊ **Remark:** Harmful to fish
- ◊ **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.
- Harmful to aquatic organisms

. 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.

. SECTION 14: Transport information

- ◊ **14.1 UN number or ID number**
- ADR, ADN, IMDG, IATA Void
- ◊ **14.2 UN proper shipping name**
- ADR, ADN, IMDG, IATA Void
- ◊ **14.3 Transport hazard class(es)**
- ADR, ADN, IMDG, IATA
- ◊ **Class** Void
- ◊ **14.4 Packing group**
- ADR, IMDG, IATA Void
- ◊ **14.5 Environmental hazards:** Not applicable.
- ◊ **14.6 Special precautions for user** Not applicable.
- ◊ **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.

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◊ UN "Model Regulation":

Void

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. SECTION 15: Regulatory information

- ◊ **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**
822.115, Jugendarbeitsschutzverordnung - ArGV 5 und 822.115.2, Verordnung des WBF über gefährliche Arbeiten für Jugendliche sind nicht zutreffend.
ArGV 1 und 822.111.52, Verordnung des WBF über gefährliche und beschwerliche Arbeiten bei Schwangerschaft und Mutterschaft sind nicht zutreffend.
- ◊ 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
H315 Causes skin irritation.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.
- ◊ Precautionary statements
P273 Avoid release to the environment.
P280 Wear protective gloves / 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.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.
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.
- ◊ REGULATION (EC) No 1907/2006 ANNEX XVII Conditions of restriction: 3
- ◊ DIRECTIVE 2011/65/EU on the restriction of the use of certain hazardous substances in electrical and electronic equipment – Annex II
None of the ingredients is listed.
- ◊ REGULATION (EU) 2019/1148
- ◊ Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))
None of the ingredients is listed.
- ◊ Annex II - REPORTABLE EXPLOSIVES PRECURSORS
None of the ingredients is listed.
- ◊ Regulation (EC) No 273/2004 on drug precursors
None of the ingredients is listed.
- ◊ Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors
None of the ingredients is listed.
- ◊ National regulations:
- ◊ Waterhazard class: Klasse A (Self-assessment)
- ◊ **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.

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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.

H412 Harmful to aquatic life with long lasting effects.

◇ Department issuing SDS: Regulatory Affairs

◇ Contact: Dr. Maja Zippel

◇ Date of previous version: 23.08.2025

◇ Version number of previous version: 9

◇ Abbreviations and acronyms:

ADR: Accord relatif au transport international 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 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)

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. 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

Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3

◇ * Data compared to the previous version altered.