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# Safety data sheet gemäß 1907/2006/EG, Artikel 31

Printing date 14.11.2013 Version 32 Revision: 14.11.2013

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

- ◇ Product identifier
- ∘ Trade name: Terpineol II (MU) 01-06372-00
- Article number: S0400648
- ∘ CAS Number: 8000-41-7 ∘ EC number: 232-268-1
- ∘ Registration number -
- 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
- 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: Sachkindige 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

Skin Irrit. 2 H315 Causes skin irritation.

Eye Irrit. 2 H319 Causes serious eye irritation.

Classification according to Directive 67/548/EEC or Directive 1999/45/EC

Xi; Irritant

R36/38: Irritating to eyes and skin.

∘ Information concerning particular hazards for human and environment: Not applicable.

- Label elements
- ∘ Labelling according to Regulation (EC) No 1272/2008 The substance 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.

⋄ Precautionary statements

P280 Wear protective gloves/protective clothing/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.

P321 Specific treatment (see on this label).

P362 Take off contaminated clothing and wash before reuse.
P332+P313 If skin irritation occurs: Get medical advice/attention.
P337+P313 If eye irritation persists: Get medical advice/attention.

- 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: Substances

◦ CAS No. Description 8000-41-7 Terpineol ◦ Identification number(s)

∘ EC number: 232-268-1

### 4. First aid measures

- 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.
- 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: 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.

## 7. Handling and storage

- · Handling:
- ∘ Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- ∘ 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.

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

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### 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: Not required.
- 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 and skin.

- Respiratory protection: Not required.
- 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.

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer.

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

## 9. Physical and chemical properties

- · Information on basic physical and chemical properties
- ⋄ General Information
- ∘ Appearance:

Form: Fluid

Colour:

Odour:
Characteristic
Odour threshold:
Not determined.

PH-value:
Melting point/Melting range:

Not determined.
Undetermined.

⋄ Flash point: 92 °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: 0,934 g/cm³

○ Relative density Not determined.

○ Vapour density Not determined.

Not determined.

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Not determined.

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Solubility in / Miscibility with

Evaporation rate

Not miscible or difficult to mix.

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.

## 11. Toxicological information

- Information on toxicological effects
- Acute toxicity:
- Primary irritant effect:
- on the skin: Irritant to skin and mucous membranes.
- 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.

Corrosive

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.

Swallowing will lead to a strong caustic effect on mouth and throat and to the danger of perforation of esophagus and stomach.

## 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.
- Ecotoxical 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.

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Other adverse effects No further relevant information available.

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#### 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 Void

**⋄ UN proper shipping name** 

⋄ ADR, ADN, IMDG, IATA Void

Transport hazard class(es)

⋄ ADR, ADN, IMDG, IATA

∘ Class Void

◇ **Packing group** ◇ ADR, IMDG, IATA Void

◇ADR, IMĎG, IATA Voi ◇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 The substance is classified and labelled according to the CLP regulation.
- Hazard pictograms



GHS07

- ⋄ Signal word Warning
- · Hazard statements

H315 Causes skin irritation.

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Precautionary statements

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

- National regulations:
- Classification according to VbF: A III
- ∘ Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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· Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

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### 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.

- · 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

EINECS: European Inventory of Existing Commercial Chemical Substances

CAS: Chemical Abstracts Service (division of the American Chemical Society)

GefStoffV: Gefahrstoffverordnung (Ordinance on Hazardous Substances, Germany)
VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

\* Data compared to the previous version altered.