

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 23.01.2023

Version 44 (replaces version 43)

Revision: 23.01.2023

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

◊ **1.1 Product identifier**

◊ Trade name: **Terpinylacetat / 01-6390**

◊ Article number: S0400714

◊ CAS Number:

80-26-2

◊ EC number:

201-265-7

◊ Registration number

-

01-2119977127-29-xxxx

◊ **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

Aquatic Chronic 2 H411 Toxic to aquatic life with long lasting effects.

◊ **2.2 Label elements**

◊ Labelling according to Regulation (EC) No 1272/2008 The substance is classified and labelled according to the CLP regulation.

◊ Hazard pictograms



GHS09

◊ Signal word Void

◊ Hazard statements

H411 Toxic to aquatic life with long lasting effects.

◊ Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

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

◊ **2.3 Other hazards**

◊ Results of PBT and vPvB assessment

◊ PBT: Not applicable.

◊ vPvB: Not applicable.

**. SECTION 3: Composition/information on ingredients**

◊ **3.1 Substances**

◊ CAS No. Description

80-26-2 Terpinyl Acetate

◊ Identification number(s)

◊ EC number: 201-265-7

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**. 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.*
- ◊ *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**
- ◊ *Suitable extinguishing agents:  
CO<sub>2</sub>, sand, extinguishing powder. Do not use water.  
Use fire extinguishing methods suitable to surrounding conditions.*
- ◊ *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:**  
*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).*
- ◊ **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.*
- ◊ **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: None.*
- ◊ *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: Not required.*
- ◊ *Additional information: The lists valid during the making were used as basis.*

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**8.2 Exposure controls**

- ◊ *Appropriate engineering controls* No further data; see item 7.
- ◊ *Individual protection measures, such as personal protective equipment*
- ◊ *General protective and hygienic measures: Wash hands before breaks and at the end of work.*
- ◊ *Respiratory protection: Not required.*
- ◊ *Hand protection*  
 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  
 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 through time has to be found out by the manufacturer of the protective gloves and has to be observed.
- ◊ *Eye/face protection* Goggles recommended during refilling

**. SECTION 9: Physical and chemical properties**

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

- ◊ *General Information*
- ◊ *Physical state* Fluid
- ◊ *Colour:* Not determined.
- ◊ *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:* 100 °C
- ◊ *Decomposition temperature:* Not determined.
- ◊ *pH* Not determined.
- ◊ *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:* 0,96 g/cm<sup>3</sup>
- ◊ *Relative density* Not determined.
- ◊ *Vapour density* Not determined.

**9.2 Other information**

- ◊ *Appearance:*
- ◊ *Form:* Fluid
- ◊ *Important information on protection of health and environment, and on safety.*
- ◊ *Auto-ignition temperature:* Not determined.
- ◊ *Explosive properties:* Not determined.
- ◊ *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

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- |   |          |
|---|----------|
| ◊ 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     |
| ◊ IMDG:   | F-A, S-F |
| ◊ MFAG:   | P        |

**. 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.
- ◊ **LD/LC50 values relevant for classification:**  
Oral LD50 5.075 mg/kg (rat)
- ◊ **Irritation of eyes** nicht reizend (rabbit)
- ◊ **Skin corrosion/irritation** Based on available data, the classification criteria are not met.
- ◊ **Serious eye damage/irritation** Based on available data, the classification criteria are not met.
- ◊ **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** Substance is not 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:** Toxic for fish

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- ◊ Additional ecological information:
- ◊ General notes:  
Water hazard class 2 (German Regulation) (Assessment by list): 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.  
Toxic for 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, IMDG, IATA UN3082
- ◊ **14.2 UN proper shipping name**
- ◊ ADR UMWELTGEFÄHRDENDER STOFF, FLÜSSIG, N.A.G. (Terpinylacetat)
- ◊ IMDG ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (Terpinyl Acetate), MARINE POLLUTANT
- ◊ IATA ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S. (containing Terpinyl Acetate)
- ◊ **14.3 Transport hazard class(es)**
- ◊ ADR, IMDG, IATA
- ◊ Class 9 Miscellaneous dangerous substances and articles.
- ◊ Label 9
- ◊ **14.4 Packing group**
- ◊ ADR, IMDG, IATA III
- ◊ **14.5 Environmental hazards:**
- ◊ Marine pollutant: Yes
- ◊ Special marking (ADR): Symbol (fish and tree)
- ◊ Special marking (IATA): Symbol (fish and tree)
- ◊ **14.6 Special precautions for user** Warning: Miscellaneous dangerous substances and articles.
- ◊ Hazard identification number (Kemler code): 90
- ◊ EMS Number: F-A,S-F
- ◊ Stowage Category A
- ◊ **14.7 Maritime transport in bulk according to IMO instruments** Not applicable.
- ◊ Transport/Additional information:
- 
- ◊ ADR
- ◊ Limited quantities (LQ) 5L
- ◊ Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml
- 
- ◊ IMDG
- ◊ Limited quantities (LQ) 5L
- ◊ Excepted quantities (EQ) Code: E1  
Maximum net quantity per inner packaging: 30 ml  
Maximum net quantity per outer packaging: 1000 ml

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◇ UN "Model Regulation":

UN 3082 UMWELTGEFÄHRDENDER STOFF, FLÜSSIG, N.A.G.  
(TERPINYLACETAT), 9, III

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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 substance is classified and labelled according to the CLP regulation.

◇ Hazard pictograms



GHS09

◇ Signal word Void

◇ Hazard statements

H411 Toxic to aquatic life with long lasting effects.

◇ Precautionary statements

P273 Avoid release to the environment.

P391 Collect spillage.

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

◇ Directive 2012/18/EU

◇ Named dangerous substances - ANNEX I Substance is not listed.

◇ Seveso category E2 Hazardous to the Aquatic Environment

◇ Qualifying quantity (tonnes) for the application of lower-tier requirements 200 t

◇ Qualifying quantity (tonnes) for the application of upper-tier requirements 500 t

◇ 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

Substance is not listed.

◇ REGULATION (EU) 2019/1148

◇ Annex I - RESTRICTED EXPLOSIVES PRECURSORS (Upper limit value for the purpose of licensing under Article 5(3))

Substance is not listed.

◇ Annex II - REPORTABLE EXPLOSIVES PRECURSORS Substance is not listed.

◇ Regulation (EC) No 273/2004 on drug precursors Substance is not listed.

◇ Regulation (EC) No 111/2005 laying down rules for the monitoring of trade between the Community and third countries in drug precursors

Substance is not listed.

◇ National regulations:

◇ Waterhazard class: Klasse A (Assessment by list)

◇ **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.

◇ Department issuing SDS: Regulatory Affairs

◇ Contact: Dr. Maja Zippel

◇ Date of previous version: 01.04.2019

◇ Version number of previous version: 43

◇ 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)

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ICAO: International Civil Aviation Organisation

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

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

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2

◇ \* Data compared to the previous version altered.