

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

Printing date 01.08.2019

Version 68

Revision: 01.08.2019

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

◊ **1.1 Product identifier**

◊ Trade name: **Isobornylacetat / 27-1880**

◊ Article number: S0400642

◊ CAS Number:

125-12-2

◊ EC number:

204-727-6

◊ Registration number

-

01-2119901856-34-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.de

◊ **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 The substance is not classified, according to the CLP regulation.

◊ **2.2 Label elements**

◊ Labelling according to Regulation (EC) No 1272/2008 Void

◊ Hazard pictograms Void

◊ Signal word Void

◊ Hazard statements Void

◊ **2.3 Other hazards**

◊ Results of PBT and vPvB assessment

◊ PBT: Not applicable.

◊ vPvB: Not applicable.

. SECTION 3: Composition/information on ingredients

◊ **3.1 Chemical characterisation: Substances**

◊ CAS No. Description

125-12-2 exo-1,7,7-Trimethylbicyclo[2.2.1]hept-2-yl acetate

◊ Identification number(s)

◊ EC number: 204-727-6

. SECTION 4: First aid measures

◊ **4.1 Description of first aid measures**

◊ General information: No special measures required.

◊ 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.

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◇ **4.3 Indication of any immediate medical attention and special treatment needed** No further relevant information available. (Contd. of page 1)

. 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 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**
No dangerous substances are released.
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** No special measures required.
- ◇ 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

- ◇ 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: Not required.
- ◇ Additional information: The lists valid during the making were used as basis.
- ◇ **8.2 Exposure controls**
- ◇ Personal protective equipment:
- ◇ General protective and hygienic measures: The usual precautionary measures are to be adhered to when handling chemicals.
- ◇ Respiratory protection: Not required.
- ◇ Protection of hands:
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.

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- ◊ 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 protection: Goggles recommended during refilling

. SECTION 9: Physical and chemical properties

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

◊ **General Information**

◊ **Appearance:**

Form: Fluid
Colour: Not determined.
Odour: Characteristic
Odour threshold: Not determined.

◊ pH-value: Not determined.

◊ Melting point/freezing point: Undetermined.

◊ Flash point: 89 °C

◊ Flammability (solid, gas): Not applicable.

◊ Ignition temperature: 430 °C

◊ Decomposition temperature: Not determined.

◊ Auto-ignition temperature: Not determined.

◊ Explosive properties: Not determined.

◊ **Explosion limits:**

Lower: Not determined.
Upper: Not determined.

◊ Density at 20 °C: 0,979 g/cm³

◊ Relative density: Not determined.

◊ Vapour density: Not determined.

◊ Evaporation rate: Not determined.

◊ Solubility in / Miscibility with
water at 20 °C:

0,16 g/l
Not miscible or difficult to mix.

◊ Partition coefficient: n-octanol/water: Not determined.

◊ **9.2 Other information** No further relevant information available.

◊ log p(O/W): 3,9

. 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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- ◊ LD/LC50 values relevant for classification:
 - Oral LD50 10.000 mg/kg (rat)
 - Dermal LD50 20.000 mg/kg (rabbit)
 - Irritation of skin reizend % (rabbit)
 - Sensitisation nicht sensibilis 2 % (human)
- ◊ Primary irritant effect:
- ◊ 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.
- ◊ 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.
- ◊ 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:
 - LC50/96 h 46-100 mg/l (fish)
 - IC20/nn 200 mg/l (bacteria)
- ◊ **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.
- ◊ Ecotoxicological effects:
- ◊ Remark: Harmless to fish up to the tested concentration
- ◊ Additional ecological information:
- ◊ General notes:
 - Water hazard class 1 (German Regulation) (Assessment by list): 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 Smaller quantities can be disposed of with household waste.
- ◊ Uncleaned packaging:
- ◊ Recommendation: Disposal must be made according to official regulations.

. SECTION 14: Transport information

- ◊ **14.1 UN-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

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- ◊ **14.4 Packing group**
 - ◊ ADR, IMDG, IATA
 - ◊ **14.5 Environmental hazards:**
 - ◊ Marine pollutant:
 - ◊ **14.6 Special precautions for user**
 - ◊ **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**
 - ◊ UN "Model Regulation":
- Void
No
Not applicable.
Not applicable.
Void

. 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 Void
- ◊ Hazard pictograms Void
- ◊ Signal word Void
- ◊ Hazard statements Void
- ◊ Directive 2012/18/EU
- ◊ Named dangerous substances - ANNEX I Substance is not listed.
- ◊ National regulations:
- ◊ Waterhazard class: Klasse B (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
 - ◊ 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
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
 - ◊ * Data compared to the previous version altered.