

Safety data sheet  
as per 1907/2006/EC, Article 31

828200

Reviewed on: 23.11.2018  
Printing date: 27.11.2018**SECTION 01: Identification of the substance/mixture and of the company undertaking****• 1.1 Product identifier****• Trade name:**

Hard wax oil without Butanonoxim

**SDB-group**

23210

**• 1.2 Relevant identified uses of the substance or mixture and uses advised against****• Application of the substance / the preparation**

Surface protection

**• 1.3 Details of the supplier of the safety data sheet****• Manufacturer/Supplier:**

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Germany

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**• Further information obtainable from:**

Laboratory:

Tel.: +49 69 89 00 7 - 104 / Fax: +49 69 89 00 7 - 48104

E-Mail: cosima.sattler@clou.de

**• 1.4 Emergency telephone number:**

Giftinformationszentrum - Nord

Universitätsklinikum

Bereich Humanmedizin

Robert Koch Str.40

37075 Göttingen

Deutschland

Tel.: + 49 551 / 1 92 40

**SECTION 02: Hazards identification****• 2.1 Classification of the substance or mixture****• Classification according to Regulation (EC) No 1272/2008**

Flam. Liq. 3 - H226 Flammable liquid and vapour.

**• 2.2 Label elements****• Labelling according to Regulation (EC) No 1272/2008****• Hazard pictograms**

GHS02

**• Signal word**

Warning

**• Hazard statements**

H226 Flammable liquid and vapour.

EUH066 Repeated exposure may cause skin dryness or cracking.

**• Precautionary statements**

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

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P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P243 Take action to prevent static discharges.

P280 Wear protective gloves / eye protection.

P370+P378 In case of fire: Use to extinguish: CO<sub>2</sub>, sand, extinguishing powder.

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 03: Composition/information on ingredients

- **3.2 Mixtures**

- **Description:**

Mixture of the substances listed below with nonhazardous additions.

- **Dangerous components:**

CAS Number		%
1174522-09-8	<b>Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, &lt;2% aromatics</b> <b>EC number: 918-481-9</b> <b>Record number 01-2119457273-39</b>  <b>Asp. Tox. 1 - H304</b>	<b>25-50</b>
64742-48-9	<b>Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</b> <b>EC number: 919-857-5</b> <b>Record number 01-2119463258-33</b>  <b>Asp. Tox. 1 - H304;</b>  <b>Flam. Liq. 3</b> <b>- H226;  STOT SE 3 - H336</b>	<b>2,5-10</b>
64742-48-9	<b>Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, &lt; 2% aromatics</b> <b>EC number: 927-241-2</b> <b>Record number 01-2119471843-32</b>  <b>Asp. Tox. 1 - H304;</b>  <b>Flam. Liq. 3</b> <b>- H226;  STOT SE 3 - H336; Aquatic Chronic 3 - H412</b>	<b>2,5-10</b>

- **SVHC**

This product contains no substances in the SVHC list in a concentration > 0,1 %.

- **Additional information:**

For the wording of the listed risk phrases refer to section 16.

### SECTION 04: First aid measures

- **4.1 Description of first aid measures**

- **General information:**

Take off or remove contaminated clothing immediately.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- **After inhalation:**

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- Seek medical treatment in case of complaints.
- **After skin contact:**  
Wash thoroughly with soap and water immediately and rinse well.  
If skin irritation continues, consult a doctor.
- **After eye contact:**  
Rinse opened eye for several minutes under running water. If symptoms persist, consult a doctor.
- **After swallowing:**  
Drink copious amounts of water and provide fresh air. Call for a doctor immediately.
- **Information for doctor:**  
Treat symptomatically.
- **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 05: Firefighting measures**

- **5.1 Extinguishing media**
- **Suitable extinguishing agents:**  
Foam  
Fire-extinguishing powder  
Carbon dioxide
- **For safety reasons unsuitable extinguishing agents:**  
Water with full jet
- **5.2 Special hazards arising from the substance or mixture**  
Formation of toxic gases is possible during heating or in case of fire.
- **5.3 Advice for firefighters**
- **Protective equipment:**  
Mouth respiratory protective device.
- **Additional information**  
Cool endangered receptacles with water spray.  
Bring if possible, containers from the danger zone. With heating up, printing increase, Berst and danger of explosion.

### **SECTION 06: Accidental release measures**

- **6.1 Personal precautions, protective equipment and emergency procedures**  
Protection regulations (see point 7 and 8) to consider.
- **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.  
Possible warning the neighbourhood.
- **6.3 Methods and material for containment and cleaning up:**  
Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).  
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 07: Handling and storage**

- **Handling:**
- **7.1 Precautions for safe handling**  
Ensure good ventilation/exhaustion at the workplace.  
Use only in well ventilated areas.

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Smoking, drinking and eating are not permitted at the working place!

Keep out of the reach of children.

Do not breathe in fumes.

Do not empty into drains.

- **Information about fire - and explosion protection:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

Fumes can combine with air to form an explosive mixture.

Vapours are heavier than air.

Soiled material such as cleaning rags, paper tissues and protective clothing can spontaneously self-ignite after several hours. To avoid the danger of fire, all soiled material should be soaked in water and stored in a closed metal container.

- **Application by spraying:**

If any persons, regardless whether or not they actually perform spray-painting themselves, are working inside the spraying chamber during varnishing there is the risk that they will be exposed to aerosols and fumes of solvent. Particularly in regard to spraying mist it is rather improbable that the maximum permissible values for dust particles will be constantly met. Under such conditions it is recommended to wear breathing masks (half masks with particle filter of at least filter class P 2 or force-ventilated breathing masks) until aerosol and solvent fumes concentrations will be again under the limit value for exposition.

- **7.2 Conditions for safe storage, including any incompatibilities**

- **Storage:**

- **Requirements to be met by storerooms and receptacles:**

The official regulations for the storage of paints and varnishes and Chemicals must be observed.

- **Information about storage in one common storage facility:**

Store away from foodstuffs.

- **Further information about storage conditions:**

Store in cool, dry conditions in well sealed receptacles.

- **Storage class:**

3

- **7.3 Specific end use(s)**

For more information, please refer to the technical data sheet.

## SECTION 08: 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.

- **DNELs**

**64742-48-9**      *Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics*

A, DNEL/DMEL: 900 mg/m<sup>3</sup> (Consumer, Long Term Exposure)

A, DNEL/DMEL: 1500 mg/m<sup>3</sup> (Worker, Long Term Exposure)

H, DNEL/DMEL: 300 mg/kg (Consumer, Long Term Exposure)

H, DNEL/DMEL: 300 mg/kg (Worker, Long Term Exposure)

Oral, DNEL/DMEL: 300 mg/kg (Consumer, Long Term Exposure)

**64742-48-9**      *Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics*

A, DNEL/DMEL: 900 mg/m<sup>3</sup> (Consumer, Long Term Exposure)

A, DNEL/DMEL: 1500 mg/m<sup>3</sup> (Worker, Long Term Exposure)

H, DNEL/DMEL: 300 mg/kg (Consumer, Long Term Exposure)

H, DNEL/DMEL: 300 mg/kg (Worker, Long Term Exposure)

Oral, DNEL/DMEL: 300 mg/kg (Consumer, Long Term Exposure)

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- **8.2 Exposure controls**
- **Personal protective equipment:**
- **General protective and hygienic measures:**  
Immediately remove all soiled and contaminated clothing  
Avoid contact with the skin.
- **Respiratory protection: Not necessary if room is well-ventilated.**
- **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. Preventive skin protection by use of skin-protecting agents is recommended. Protective gloves made of latex / neoprene. Degradation effect G to E Instalment of permeation E to ND (< 0.9 µg / cm<sup>2</sup> / min). Protective factor index: special subject class 6. After use of gloves apply skin-cleaning agents and skin cosmetics.**
- **Material of gloves**  
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. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.
- **Eye protection: Protective goggles if applicable.**
- **Body protection: Protective work clothing**

## **SECTION 09: Physical and chemical properties**

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

#### **General Information**

##### **Appearance:**

<b>Form:</b>	Liquid
<b>Colour:</b>	According to product specifica
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.
<b>pH-value:</b>	Not usable on solvent preparations.

#### **Change in condition Phase transfer: fluid - solid**

<b>Melting point/freezing point:</b>	Undetermined.
<b>Initial boiling point and boiling range:</b>	Undetermined.
<b>Flash point (approximately):</b>	51,0 °C DIN 51 755
<b>Flammability (solid, gas):</b>	Not applicable.
<b>Ignition temperature (approximately):</b>	240,00 °C (lowest value of the single components)
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Product is not selfigniting. Due to the danger of self-ignition soaked cloths, however, should be moistened with water and eliminated then.
<b>Explosive properties:</b>	Product is not explosive. However, formation of explosive air/vapour mixtures are possible.

#### **Explosion limits:**

<b>Lower:</b>	0,60 Vol %
<b>Upper:</b>	6,50 Vol %
<b>Oxidising properties</b>	Not determined

Vapour pressure: Not determined.

<b>Density:</b>	0,8760 g/cm <sup>3</sup>
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not applicable.

**Solubility in / Miscibility with water:** Organic solvents  
Insoluble.

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

**Viscosity (according to DIN 53211)**

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<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	at 40,00 °C 36,17 mm <sup>2</sup> /s
<b>Solvent separation test:</b>	< 3 %
<b>Solvent content (approximately):</b>	
<b>Organic solvents (approximately):</b>	51,00 %
<b>VOC (EC)</b>	445,00 g/l
<b>Solids content (approximately):</b>	49,00 %
<b>9.2 Other information</b>	No further relevant information available.

### SECTION 10: Stability and reactivity

- **10.1 Reactivity**  
On storage in containers no traffic laws intolerances are to be expected with the tank shell.
- **10.2 Chemical stability**  
Stable at room temperature
- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **10.3 Possibility of hazardous reactions**  
Forms explosive gases/fumes.  
Can form explosive mixtures in air if heated above flash point and/or when sprayed or atomised.
- **10.4 Conditions to avoid**  
No further relevant information available.
- **10.5 Incompatible materials:**  
No further relevant information available.
- **10.6 Hazardous decomposition products:**  
Flammable gases/vapours

### SECTION 11: Toxicological information

- **11.1 Information on toxicological effects**
- **Acute toxicity**
- **LD/LC50 values relevant for classification:**
  - 1174522-09-8**      **Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics**  
Oral, LD50: > 5000 mg/kg (rat)  
Dermal, LD50: > 5000 mg/kg (Rabbit)  
Inhalative, LC50/4h: > 5 mg/l (rat)
  - 64742-48-9**      **Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics**  
Oral, LD50: > 5000 mg/kg (rat)  
Dermal, LD50: > 5000 mg/kg (Rabbit)  
Inhalative, LC50/4h: > 5 mg/l (rat)
  - 64742-48-9**      **Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics**  
Oral, LD50: > 5000 mg/kg (rat)  
Dermal, LD50: > 5000 mg/kg (Rabbit)  
Inhalative, LC50/4h: > 4,951 mg/l (rat)
- **Primary irritant effect:**
- **Skin corrosion/irritation**  
Repeated exposure may cause skin dryness or cracking.  
Irritant to skin and mucous membranes.
- **Serious eye damage/irritation**  
Irritating effect.
- **Respiratory or skin sensitisation**  
Sensitisation possible through skin contact.
- **Additional toxicological information:**

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The breathing in of solvent proportions above the value of M. W. C.-value can lead to health damages, such as irritating mucous membranes and respiratory organs, kidney and liver damages as well as to the impairment of the central nervous system. Signs and symptoms: Headache, dizziness and tiredness, myasthenia, numbing effect and also unconsciousness in exceptional cases. Longer and repeated skin contact can lead to drying out the skin or to skin irritations, respectively. Solvent splashes can lead to eye irritations and reversible damages. In such cases a physician should be consulted at once.

The product shows the following dangers based on the calculation method of the General EU Classification Guidelines for Substances and Mixtures according to the CLP Regulation in the latest version:

EUH066 Repeated exposure may cause skin dryness or cracking.

- **CMR effects (carcinogenicity, 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:**

**1174522-09-8**      *Hydrocarbons, C10-C13, n-alkanes, isoalkanes, cyclics, <2% aromatics*

Dermal, L(E)C50: > 100 mg/l (fish)  
Dermal, L(E)C50: > 100 mg/l (alga)  
Dermal, L(E)C50: > 100 mg/l (daphnie)  
Dermal, NOEC: > 0,1 - 1,0 mg/l (fish)  
Dermal, NOEC: > 0,1 - 1,0 mg/l (daphnie)

**64742-48-9**      *Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics*

Dermal, L(E)C50: 2200 mg/l (fish)  
Dermal, L(E)C50: 2,6 mg/l (daphnie)

**64742-48-9**      *Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics*

Dermal, L(E)C50: 10-30 mg/l (fish)  
Dermal, L(E)C50: 1000 mg/l (alga)  
Dermal, L(E)C50: 22-46 mg/l (daphnie)

- **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.

- **Additional ecological information:**

- **General notes:**

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.

- **12.5 Results of PBT and vPvB assessment**

- **PBT:**

Not applicable.

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- **vPvB:**  
Not applicable.
- **12.6 Other adverse effects**  
No further relevant information available.

### **SECTION 13: Disposal considerations**

- **13.1 Waste treatment methods**
- **Recommendation**  
The mentioned waste code number according to the European waste code catalogue are regarded as a recommendation. A final determining has to be effected in agreement with the regional place of waste disposal as well as the competent authorities.
- **Waste disposal key:**  
08 01 11 waste paint and varnish containing organic solvents or other hazardous substances
- **European waste catalogue**  
08  
WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS  
08 01  
wastes from MFSU and removal of paint and varnish  
08 01 11  
waste paint and varnish containing organic solvents or other hazardous substances
- **Uncleaned packaging:**  
Disposal of uncleaned packagings according to European waste code number 15 01 10.
- **Recommendation:**  
Disposal according to 15 01 04 (metal).  
EAK-Nummer 15 01 02 / plastic  
Packaging can be reused or recycled after cleaning.  
The product is not self-igniting. However, soak used rags in water and dispose of them due to the danger of self-ignition.
- **Recommended cleansing agents:**  
CLOU EV Thinner  
CLOU Thinner for CLOURETHAN

### **SECTION 14: Transport information**

- **14.1 UN-Number**
- ADR** UN1263
- IMDG** UN1263
- IATA** UN1263
- ADR** 1263 PAINT (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS)
- IMDG** PAINT
- IATA** PAINT
- **14.3 Transport hazard class(es)**
- ADR**
- Class** 3 Flammable liquids.
- Label**



**IMDG**

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**Class** 3 Flammable liquids.

**Label**



**IATA**

**Class**

3 Flammable liquids.

**Label**



• **14.4 Packing group**

**ADR** III

**IMDG** III

**IATA** III

• **14.5 Environmental hazards:**

Not applicable.

• **14.6 Special precautions for user**

Warning: Flammable liquids.

**Danger code (Kemler):** 30

**EMS Number:** F-E,S-E

• **14.7 Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

Not applicable.

• **Transport/Additional information:**

Not applicable.

**Excepted quantities (EQ):** E1

**Limited quantities (LQ)** 5L

**Transport category** 3

**Tunnel restriction code** D/E

**IMDG**

**Limited quantities (LQ)** 5L

**Excepted quantities (EQ)** E1

• **UN "Model Regulation":**

UN 1263 PAINT (HYDROCARBONS, C9-C10, N-ALKANES, ISOALKANES, CYCLICS, < 2% AROMATICS), 3, III

### **SECTION 15: Regulatory information**

• **15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

• **Labelling according to EU guidelines:**

The product has been classified and marked in accordance with EU Directives / Ordinance on Hazardous Materials.

• **REGULATION (EC) No 1907/2006 ANNEX XVII**

Conditions of restriction: 3

• **National regulations:**

• **Information about limitation of use:**

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Pregnant and breastfeeding women and young persons.

• **15.2 Chemical safety assessment:**

For this product no appraisal of substance safety was carried out. Information from exposure scenarios of the following substances were integrated into section 1-16:

Hydrocarbons, C9-C10, alkanes, isoalkanes, cyclics, <2% aromatics

Hydrocarbons, C9-C11, n-alkanes, isoalkanes, cyclics, < 2% aromatics

The compliance with the application conditions and measures for risk minimisation contained in this material safety data sheet ensures the conformity with the existing exposure scenarios.

**Storage class:**

3

**SECTION 16: Other information**

• **Other information:**

• **Reasons for changes**

The dangerous goods classification guidelines according to the CLP Regulation (EG) No. 1272/2008 has changed (see point 2.)

• **Relevant phrases**

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H336 May cause drowsiness or dizziness.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

• **Classification according to Regulation (EC) No 1272/2008**

The classification of the mixture is generally based on the calculation method using substance data according to Regulation (EC) No 1272/2008.

• **Department issuing MSDS:**

Laboratory / Department of Material Safety Data Sheets: Phone: +49 69 89 00 7 - 104 / Fax: +49 69 89 00 7 - 48104/ E-Mail: cosima.sattler@clou.de

• **Information:**

The information given in this safety data sheet is based on the present level of knowledge, but does not represent an assurance of product characteristics.

The user is responsible for observing all necessary legal regulations.

For further information on the handling and application of the product(s), please refer to our label and the technical instructions leaflet or contact our Customer Service Department on Tel.: +49 69 / 89 00 7 -124, -107 or -227.

According to § 14 GefStoffV the employer must provide instruction to the employees affected on the basis of the operating instructions every year. The content and time of the instruction is to be recorded in writing and confirmed by signatures from those receiving instruction.

Please observe work safety measures in items 8 and 15.

Use only for intended purposes. Keep out of the reach of children.

• **Abbreviations and acronyms:**

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)

IMDG: International Maritime Code for Dangerous Goods

IATA: International Air Transport Association

ICAO: International Civil Aviation Organisation

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)

DNEL: Derived No-Effect Level (REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

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PBT: Persistent, Bioaccumulative and Toxic  
SVHC: Substances of Very High Concern  
vPvB: very Persistent and very Bioaccumulative

- **\* Data compared to the previous version altered.**