

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006, as amended by  
Commission Regulation (EU) 2020/878

DE / EN



## Capadur UniversalLasur Renovierfarbton

Version	Revision Date:	SDS Number:	Date of last issue: 21.03.2025
3.2	09.01.2026	6007018	Date of first issue: 09.07.2019

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

#### 1.1 Product identifier

Trade name : Capadur UniversalLasur Renovierfarbton

Unique Formula Identifier (UFI) : U37F-SQKU-301W-WJW3

#### 1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Sub-stance/Mixture : Solvent-borne coatings

Recommended restrictions : within adequate application - none on use

#### 1.3 Details of the supplier of the safety data sheet

Company : Caparol Farben Lacke GmbH  
Roßdörfer Straße 50  
64372 Ober-Ramstadt

Telephone : +496154710  
Telefax : +4961547170222

Website :  
E-mail address Responsible/issuing person : msds@dr-rmi.com

#### 1.4 Emergency telephone

Emergency telephone 1 : +49613284463 GBK GmbH

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### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification (REGULATION (EC) No 1272/2008)

Skin sensitization, Category 1 : H317: May cause an allergic skin reaction.

Long-term (chronic) aquatic hazard, Category 3 : H412: Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling (REGULATION (EC) No 1272/2008)

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Hazard pictograms	:	
Signal Word	:	Warning
Hazard Statements	:	H317 May cause an allergic skin reaction. H412 Harmful to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	EUH066 Repeated exposure may cause skin dryness or cracking.
Precautionary Statements	:	<b>Prevention:</b> P261 Avoid breathing mist or vapors. P273 Avoid release to the environment. P280 Wear protective gloves. <b>Response:</b> P333 + P313 If skin irritation or rash occurs: Get medical advice/ attention. P362 + P364 Take off contaminated clothing and wash it before reuse. <b>Disposal:</b> P501 Dispose of contents/ container to an approved waste disposal plant.

### Hazardous ingredients which must be listed on the label:

Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate  
4,5-dichloro-2-octyl-2H-isothiazol-3-one  
octhilinone (ISO)  
maleic anhydride

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

Ecological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Toxicological information: The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

Hotline for allergy inquiries: 0800/1895000 (free of charge from the German landline).

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Alkyd-resin-based wood varnish, solvent-containing, with film protection

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	64742-48-9 265-150-3 649-327-00-6 01-2119457273-39, 01-2119463258-33, 01-2119486659-16	Asp. Tox. 1; H304 EUH066	$\geq 30 - < 50$
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		$\geq 1 - < 10$
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	6846-50-0 229-934-9 01-2119451093-47	Repr. 2; H361d Aquatic Chronic 3; H412	$\geq 1 - < 2,5$
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1065336-91-5 915-687-0 01-2119491304-40	Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Repr. 2; H361f	$\geq 0,25 - < 1$
4,5-dichloro-2-octyl-2H-isothiazol-3-one	64359-81-5 264-843-8 613-335-00-8	Acute Tox. 4; H302 Acute Tox. 2; H330 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100  specific concentration limit Skin Irrit. 2; H315 0,025 - < 5 %	$\geq 0,0025 - < 0,025$

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		Eye Irrit. 2; H319 0,025 - < 3 % Skin Sens. 1A; H317 >= 0,0015 %  Acute toxicity estimate  Acute oral toxicity: 567 mg/kg Acute inhalation toxicity (dust/mist): 0,16 mg/l	
octhilinone (ISO)	26530-20-1 247-761-7 613-112-00-5 01-2120768921-45	Acute Tox. 3; H301 Acute Tox. 2; H330 Acute Tox. 3; H311 Skin Corr. 1; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 EUH071  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 100  specific concentration limit Skin Sens. 1A; H317 >= 0,0015 %  Acute toxicity estimate  Acute oral toxicity: 125 mg/kg Acute inhalation toxicity (dust/mist): 0,27 mg/l Acute dermal toxicity: 311 mg/kg	>= 0,0025 - < 0,025
maleic anhydride	108-31-6 203-571-6 607-096-00-9	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318	< 0,001

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	01-2119472428-31, 01-2120759691-45	Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 (Respiratory system, Inhalation) EUH071	
Substances with a workplace exposure limit :			
Silica gel, pptd., cryst.-free	112926-00-8 231-545-4 01-2119379499-16, 01-2120105300-82		>= 1 - < 10

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : Never give anything by mouth to an unconscious person.  
If you feel unwell, seek medical advice (show the label where possible).  
Move out of dangerous area.  
First aider needs to protect himself.
- If inhaled : Call a physician.  
If breathing is irregular or stopped, administer artificial respiration.  
If unconscious, place in recovery position and seek medical advice.  
If symptoms persist, call a physician.  
Move to fresh air.
- In case of skin contact : Do NOT use solvents or thinners.  
In case of contact, immediately flush skin with soap and plenty of water.  
Take off all contaminated clothing immediately.
- In case of eye contact : If eye irritation persists: Get medical advice/ attention.  
IF IN EYES: Rinse cautiously with water for several minutes.  
Remove contact lenses, if present and easy to do. Continue rinsing.
- If swallowed : Seek medical advice.  
Clean mouth with water and drink afterwards plenty of water.

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If swallowed, DO NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Risks : May cause an allergic skin reaction.  
Repeated exposure may cause skin dryness or cracking.

### 4.3 Indication of any immediate medical attention and special treatment needed

Treatment : No information available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.  
Do not use a solid water stream as it may scatter and spread fire.

Unsuitable extinguishing media : None known.

### 5.2 Special hazards arising from the substance or mixture

Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray.  
In case of fire hazardous decomposition products may be produced such as:  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : In the event of fire, wear self-contained breathing apparatus.

Further information : Standard procedure for chemical fires.  
In the event of fire and/or explosion do not breathe fumes.

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## SECTION 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions : Do not get in eyes, on skin, or on clothing.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.  
Ensure adequate ventilation.  
Remove all sources of ignition.

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### 6.2 Environmental precautions

Environmental precautions : Prevent further leakage or spillage if safe to do so.  
If the product contaminates rivers and lakes or drains inform  
respective authorities.  
Do not flush into surface water or sanitary sewer system.

### 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Keep in suitable, closed containers for disposal.  
Soak up with inert absorbent material (e.g. sand, silica gel,  
acid binder, universal binder, sawdust).

### 6.4 Reference to other sections

For further information see Section 7 of the safety data sheet.  
, For personal protection see section 8., For disposal considerations see section 13.

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## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Non-sparking tools should be used.  
For personal protection see section 8.  
Avoid exceeding the given occupational exposure limits (see  
section 8).  
Provide sufficient air exchange and/or exhaust in work rooms.

Advice on protection against fire and explosion : Vapors may form explosive mixtures with air. Vapors are  
heavier than air and may spread along floors. Keep away from  
heat, hot surfaces, sparks, open flames and other ignition  
sources. No smoking.

Hygiene measures : Avoid contact with the skin and the eyes. Wash hands before  
eating, drinking, or smoking. Do not eat, drink or smoke when  
using this product. Remove contaminated clothing and protec-  
tive equipment before entering eating areas.

### 7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Store between 41 and 77 °F in a  
dry, well ventilated place away from sources of heat, ignition  
and direct sunlight. Containers which are opened must be  
carefully resealed and kept upright to prevent leakage.

Storage class (TRGS 510) : 10

### 7.3 Specific end use(s)

Specific use(s) : This information is not available.

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### SECTION 8: Exposure controls/personal protection

#### 8.1 Control parameters

##### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Naphtha (petroleum), hydrotreated heavy; Low boiling point ydrogen treated naphtha	64742-48-9	MAK	50 ppm 300 mg/m <sup>3</sup>	DE DFG MAK
	Peak-limit category: 2; II			
	Further information: Either there are no data for an assessment of damage to the embryo or foetus, including developmental neurotoxicity, or the currently available data are not sufficient for classification in one of the groups A - C			
		AGW	300 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: Group exposure limit for hydrocarbon solvent mixtures			
titanium dioxide	13463-67-7	MAK (measured as the alveolate fraction)	0,3 mg/m <sup>3</sup>	DE DFG MAK
	Peak-limit category: 8; II			
	Further information: Substances that cause cancer in humans or animals or that are considered to be carcinogenic for humans and for which a MAK value can be derived., Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
		AGW (Inhalable fraction)	10 mg/m <sup>3</sup> (Titanium dioxide)	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup> (Titanium dioxide)	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		BM (Alveolar dust fraction)	0,5 mg/m <sup>3</sup>	DE TRGS 527
Silica gel, pptd., cryst.-free	112926-00-8	AGW (Inhalable fraction)	1 mg/m <sup>3</sup> (Silica)	DE TRGS 900
	Peak-limit category: 8;(II)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		MAK (measured as the alveolate fraction)	0,02 mg/m <sup>3</sup>	DE DFG MAK
	Peak-limit category: 8; II			
	Further information: Damage to the embryo or foetus is unlikely when the			

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	MAK value or the BAT value is observed			
octhilonone (ISO)	26530-20-1	MAK (inhalable fraction)	0,05 mg/m <sup>3</sup>	DE DFG MAK
	Peak-limit category: 2; I			
	Further information: Danger of sensitization of the skin, Danger of absorption through the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
		AGW (Inhalable fraction)	0,05 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 2;(I)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
maleic anhydride	108-31-6	Mow	0,05 ppm 0,2 mg/m <sup>3</sup>	DE DFG MAK
	Peak-limit category: 1; I			
	Further information: Danger of sensitization of the airways and the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
		MAK	0,02 ppm 0,081 mg/m <sup>3</sup>	DE DFG MAK
	Peak-limit category: 1; I			
	Further information: Danger of sensitization of the airways and the skin, Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed			
		AGW (Vapour and aerosols)	0,02 ppm 0,081 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 1; =2.5=(I)			
	Further information: In well-found cases also a momentary value can be established, that never can be exceeded. This substance will be indicated by = = in combination with an exceeding value., When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Substance sensitizing through the skin and respiratory system			

### Derived No Effect Level (DNEL) according to Regulation (EC) No. 1907/2006:

Substance name	End Use	Routes of exposure	Potential health effects	Value
titanium dioxide	Consumers	Ingestion	Long-term systemic effects	700,00 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	10,00 mg/m <sup>3</sup>
iron hydroxide oxide yellow	Workers	Inhalation	Long-term systemic effects	10,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	10,00 mg/m <sup>3</sup>
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Consumers	Ingestion	Long-term systemic effects	18,80 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	18,80 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	32,60 mg/m <sup>3</sup>

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	Workers	Inhalation	Long-term systemic effects	110,00 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	31,20 mg/kg bw/day
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Consumers	Inhalation	Acute local effects	0,58 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	1,25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,58 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	0,58 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	1,25 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	1,25 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	1,25 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	2,35 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	2,35 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	2,35 mg/m <sup>3</sup>
	Workers	Skin contact	Acute systemic effects	2,50 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	2,50 mg/kg bw/day
maleic anhydride	Consumers	Inhalation	Long-term systemic effects	0,05 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	0,06 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	0,10 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	0,10 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	0,08 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	0,10 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	0,80 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	0,95 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	0,80 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	0,40 mg/m <sup>3</sup>

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	Workers	Inhalation	Long-term systemic effects	0,19 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,40 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,32 mg/m <sup>3</sup>
	Workers	Skin contact	Acute systemic effects	0,20 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	0,20 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	

### Predicted No Effect Concentration (PNEC) according to Regulation (EC) No. 1907/2006:

Substance name	Environmental Compartment	Value
titanium dioxide	Sewage treatment plant	100 mg/l
	Fresh water	0,184 mg/l
	Soil	100 mg/kg dry weight (d.w.)
	Sea water	0,0184 mg/l
	Fresh water sediment	1000 mg/kg dry weight (d.w.)
	Sea sediment	100 mg/kg dry weight (d.w.)
1-isopropyl-2,2-dimethyltrimethylene diisobutyrate	Intermittent use/release	0,193 mg/l
	Sea water	0,0014 mg/l
	Sewage treatment plant	3 mg/l
	Sea sediment	0,529 mg/kg dry weight (d.w.)
	Secondary Poisoning	83,3 mg/kg food
	Fresh water	0,014 mg/l
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Soil	1,05 mg/kg dry weight (d.w.)
	Fresh water sediment	5,29 mg/kg dry weight (d.w.)
	Sea water	0,00022 mg/l
	Soil	0,21 mg/kg dry weight (d.w.)
	Fresh water	0,0022 mg/l
	Sewage treatment plant	1 mg/l
maleic anhydride	Fresh water sediment	1,05 mg/kg dry weight (d.w.)
	Intermittent use/release	0,009 mg/l
	Sea sediment	0,11 mg/kg dry weight (d.w.)
	Fresh water	0,075 mg/l

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	Fresh water sediment	0,334 mg/kg dry weight (d.w.)
	Soil	0,0415 mg/kg dry weight (d.w.)
	Sea water	0,01 mg/l
	Intermittent use/release	0,4281 mg/l
	Sewage treatment plant	44,6 mg/l
	Soil	0,01 mg/kg dry weight (d.w.)
	Sea water	0,0075 mg/l
	Secondary Poisoning	6,67 mg/kg food
	Fresh water	0,1 mg/l
	Sewage treatment plant	4,46 mg/l
	Sea sediment	0,006 mg/kg dry weight (d.w.)
	Fresh water sediment	0,06 mg/kg dry weight (d.w.)
	Intermittent use/release	0,75 mg/l
	Sea sediment	0,0334 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : DGUV Regulation 112-192 - Use of eye and face protection

Goggles

#### Hand protection

Material : Nitrile rubber

Glove thickness : 0,2 mm

Protective index : Class 3

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water. Wear suitable gloves tested to EN374.  
DGUV Regulation 112-195 - Use of protective gloves

Skin and body protection : Safety shoes  
Long sleeved clothing

Choose body protection according to the amount and concentration of the dangerous substance at the work place.

Skin should be washed after contact.

Remove and wash contaminated clothing before re-use.  
During spray application: impervious clothing

Respiratory protection : Roller application or brushing: This product should not be

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used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

DGUV Regulation 112-190 - Use of breathing equipment

During spray application: Do not breathe spray dust. Use A2/P2 combination filter for paint spraying.

### SECTION 9: Physical and chemical properties

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

Physical state	:	liquid
Color	:	white
Odor	:	characteristic
Odor Threshold	:	Not relevant
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	> 60 °C Method: ISO 1523
Autoignition temperature	:	not determined
Decomposition temperature	:	Not applicable
pH	:	substance/mixture is non-soluble (in water)
Viscosity	:	

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Viscosity, dynamic	:	> 100 mPa.s (40 °C) Method: ISO 3219
Viscosity, kinematic	:	>= 21 mm <sup>2</sup> /s (40 °C)  > 20,5 mm <sup>2</sup> /s (40 °C) Method: ISO 3104/3105
Flow time	:	Not applicable
Solubility(ies) Water solubility	:	partly miscible
Partition coefficient: n- octanol/water	:	not determined
Vapor pressure	:	not determined
Relative density	:	not determined
Density	:	0,99 g/cm <sup>3</sup> (20 °C) Method: DIN EN ISO 2811-1
Bulk density	:	Not applicable
Relative vapor density	:	Heavier than air.

### 9.2 Other information

Explosives	:	Not applicable
Oxidizing properties	:	Not applicable
Flammability (liquids)	:	Sustains combustion
Evaporation rate	:	Not applicable

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

Hazardous reactions : Vapors may form explosive mixture with air.  
Hazardous decomposition products formed under fire conditions.

#### 10.4 Conditions to avoid

Conditions to avoid : Protect from frost, heat and sunlight.

#### 10.5 Incompatible materials

Materials to avoid : Incompatible with acids and bases.  
Incompatible with oxidizing agents.

#### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

### SECTION 11: Toxicological information

#### 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008

##### Acute toxicity

Not classified based on available information.

##### Components:

##### 4,5-dichloro-2-octyl-2H-isothiazol-3-one:

Acute oral toxicity : Acute toxicity estimate: 567 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 0,16 mg/l  
Test atmosphere: dust/mist  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

##### octhilinone (ISO):

Acute oral toxicity : Acute toxicity estimate: 125 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 0,27 mg/l  
Test atmosphere: dust/mist

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Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

Acute dermal toxicity : Acute toxicity estimate: 311 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC)  
No. 1272/2008

### maleic anhydride:

Acute oral toxicity : LD50 (Rat, male and female): 1.090 mg/kg  
Method: OECD Test Guideline 401

### Silica gel, pptd., cryst.-free:

Acute oral toxicity : LD50 Oral (Rat): > 10.000 mg/kg

Acute dermal toxicity : LD50 (Rat): > 5.000 mg/kg

### Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

#### Components:

##### maleic anhydride:

Species : Rabbit  
Assessment : Causes burns.

### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### maleic anhydride:

Species : Rabbit  
Assessment : Causes burns.

### Respiratory or skin sensitization

#### Skin sensitization

May cause an allergic skin reaction.

#### Respiratory sensitization

Not classified based on available information.

#### Components:

##### maleic anhydride:

Species : Rat  
Result : Causes sensitization.

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### **Germ cell mutagenicity**

Not classified based on available information.

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **STOT-single exposure**

Not classified based on available information.

### **STOT-repeated exposure**

Not classified based on available information.

### **Aspiration toxicity**

Not classified based on available information.

## 11.2 Information on other hazards

### **Endocrine disrupting properties**

#### **Product:**

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

## SECTION 12: Ecological information

### 12.1 Toxicity

#### **Components:**

#### **4,5-dichloro-2-octyl-2H-isothiazol-3-one:**

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 100

#### **octhilinone (ISO):**

M-Factor (Acute aquatic toxicity) : 100

M-Factor (Chronic aquatic toxicity) : 100

### 12.2 Persistence and degradability

No data available

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### 12.3 Bioaccumulative potential

#### Components:

##### **Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha:**

Partition coefficient: n-octanol/water : log Pow: 1,99 - 18,02 (20 °C)  
pH: 7

##### **1-isopropyl-2,2-dimethyltrimethylene diisobutyrate:**

Partition coefficient: n-octanol/water : log Pow: 4,49 (25 °C)

##### **Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate:**

Partition coefficient: n-octanol/water : log Pow: 2,37 - 2,77 (25 °C)  
pH: 7,0

##### **octhilinone (ISO):**

Partition coefficient: n-octanol/water : log Pow: 2,61 (25 °C)  
pH: 7

##### **maleic anhydride:**

Partition coefficient: n-octanol/water : log Pow: -2,61 (19,8 °C)  
pH: 4 - 9

### 12.4 Mobility in soil

No data available

### 12.5 Results of PBT and vPvB assessment

#### Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

### 12.6 Endocrine disrupting properties

#### Product:

Assessment : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

### 12.7 Other adverse effects

#### Product:

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Additional ecological information : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

Product : Materials and all related packaging must be disposed of in a safe way in accordance with the full requirements of the local, regional, national and international authorities.  
Must not reach sewage system or environment.

Contaminated packaging : Only completely emptied containers should be given for recycling.

Waste Code : used product  
080112, waste paint and varnish other than those mentioned in 08 01 11\*

### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.2 UN proper shipping name

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

#### 14.3 Transport hazard class(es)

ADN : Not regulated as a dangerous good  
ADR : Not regulated as a dangerous good  
RID : Not regulated as a dangerous good  
IMDG : Not regulated as a dangerous good  
IATA : Not regulated as a dangerous good

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### 14.4 Packing group

<b>ADN</b>	:	Not regulated as a dangerous good
<b>ADR</b>	:	Not regulated as a dangerous good
<b>RID</b>	:	Not regulated as a dangerous good
<b>IMDG</b>	:	Not regulated as a dangerous good
<b>IATA (Cargo)</b>	:	Not regulated as a dangerous good
<b>IATA (Passenger)</b>	:	Not regulated as a dangerous good

### 14.5 Environmental hazards

Not regulated as a dangerous good

### 14.6 Special precautions for user

Not applicable

### 14.7 Maritime transport in bulk according to IMO instruments

Not applicable for product as supplied.

## SECTION 15: Regulatory information

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

REACH - Restrictions on the manufacture, placing on the market and use of certain dangerous substances, mixtures and articles (Annex XVII)	:	Conditions of restriction for the following entries should be considered: Number on list 75, 3
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If you intend to use this product as tattoo ink, please contact your vendor.

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59) (SVHC).	:	This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.
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Regulation (EU) No 2024/590 on substances that deplete the ozone layer	:	Not applicable
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Regulation (EU) 2019/1021 on persistent organic pollutants (recast)	:	Not applicable
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REACH - List of substances subject to authorisation (Annex XIV)	:	None
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Seveso III: Directive 2012/18/EU of the Euro-	34	Petroleum products: (a) gasolines
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pean Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e) alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

- Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)
- Product code for laquers and paints / Giscode : M-KH02F Solvent-based varnishes / wood glaze, aromatics removed, active agents
- . : BSL40: Coating materials, strongly solvent-based, aromatic-free, classified
- Labeling according to Regulation (EU) 528/2012 : Treated article, contains a biocidal product. Film preservative: DCOIT, OIT.
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial and livestock rearing emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 33,72 %
- Volatile organic compounds : Directive 2004/42/EC  
< 34 %  
< 340 g/l

### Other regulations:

Take note of Law on the protection of mothers at work, in education and in studies (Maternity Protection Act - MuSchG).

Take note of Directive 94/33/EC on the protection of young people at work or stricter national regulations, where applicable.

## 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

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## SECTION 16: Other information

### Full text of H-Statements

H301 : Toxic if swallowed.

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H302	:	Harmful if swallowed.
H304	:	May be fatal if swallowed and enters airways.
H311	:	Toxic in contact with skin.
H314	:	Causes severe skin burns and eye damage.
H317	:	May cause an allergic skin reaction.
H318	:	Causes serious eye damage.
H330	:	Fatal if inhaled.
H334	:	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H361d	:	Suspected of damaging the unborn child.
H361f	:	Suspected of damaging fertility.
H372	:	Causes damage to organs through prolonged or repeated exposure.
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.
EUH066	:	Repeated exposure may cause skin dryness or cracking.
EUH071	:	Corrosive to the respiratory tract.

### Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
Asp. Tox.	:	Aspiration hazard
Eye Dam.	:	Serious eye damage
Repr.	:	Reproductive toxicity
Resp. Sens.	:	Respiratory sensitization
Skin Corr.	:	Skin corrosion
Skin Sens.	:	Skin sensitization
STOT RE	:	Specific target organ toxicity - repeated exposure
DE DFG MAK	:	Germany. MAK BAT Annex IIa
DE TRGS 527	:	Germany. TRGS 527 - Activities with nanomaterials
DE TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
DE DFG MAK / Mow	:	Momentary value
DE DFG MAK / MAK	:	MAK value
DE TRGS 527 / BM	:	Assessment scale
DE TRGS 900 / AGW	:	Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

Other information : No exposure scenario communication is required for this

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product according to REACH Regulation No. 1907/2006 EC. Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

Sources of key data used to compile the Material Safety Data Sheet :

- ECHA WebSite
- ACGIH (American Conference of Government Industrial Hygienists). 2014 TLVs and BEIs. Threshold Limit Values (TLVs) for chemical substances and physical agents and Biological Exposure Indices (BEIs) with Seventh Edition documentation. 2014 ACGIH, Cincinnati OH
- NIOSH - Registry of toxic effects of chemical substances
- ECDIN - Environmental Chemicals Data and Information Network - Joint Research Centre, Commission of the European Communities
- SAX'S - Dangerous properties of industrial materials
- GESTIS - Database on hazardous substances - Institut für Arbeitsschutz der Deutschen Gesetzlichen Unfallversicherung (IFA, Institute for Occupational Safety and Health of the German Social Accident Insurance)
- Toxnet - Toxicology Data Network

### Classification of the mixture:

Skin Sens. 1	H317
Aquatic Chronic 3	H412

### Classification procedure:

Calculation method
Calculation method

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

### REACH Information

According to our legal obligation we implement the Regulation (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH). We will adjust and update our safety data sheets on a regular base in accordance with the information of our upstream-suppliers. As usual we will inform you about the adjustments.

Regarding to the REACH regulation we would like to point out that DAW as a downstream user will not register on behalf of our company. We will rely on information from our suppliers. As soon as new information is available our safety data sheets will be amended accordingly.

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