

# SAFETY DATA SHEET

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

DE / EN



## Capalac Seidenmatt-Buntlack RAL 9001

Version	Revision Date:	SDS Number:	Date of last issue: 06.09.2023
5.0	23.10.2024	6007474	Date of first issue: 24.07.2019

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

#### 1.1 Product identifier

Trade name : Capalac Seidenmatt-Buntlack RAL 9001

#### 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)**

Not a hazardous substance or mixture.

#### 2.2 Label elements

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

No hazard pictogram, no signal word, no hazard statement(s), no precautionary statement(s) required.

#### Additional Labeling

**EUH210** Safety data sheet available on request.

**EUH211** Warning! Hazardous respirable droplets may be formed when sprayed. Do not breathe spray or mist.

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### 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.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq$ 10 $\mu\text{m}$ ]	13463-67-7 236-675-5 022-006-00-2 01-2119489379-17	Carc. 2; H351	$\geq$ 20 - < 30
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	$\geq$ 20 - < 30
Strontium Neodecanoate	106705-37-7  01-2120803350-72	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 1B; H360D (Skeleton)	$\geq$ 0,1 - < 0,3
propylidynetrimethanol	77-99-6 201-074-9 01-2119486799-10	Repr. 2; H361fd	$\geq$ 0,1 - < 1
Substances with a workplace exposure limit :			
Silica gel, pptd., cryst.-free	112926-00-8 231-545-4 01-2119379499-16, 01-2120105300-82		$\geq$ 1 - < 10
aluminium oxide	1344-28-1 215-691-6 01-2119529248-35, 01-2119817795-27		$\geq$ 1 - < 10
(2-methoxymethylethoxy)propanol	34590-94-8 252-104-2 01-2119450011-60		$\geq$ 1 - < 10

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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 : 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.  
If swallowed, DO NOT induce vomiting.

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

- Risks : Repeated exposure may cause skin dryness or cracking.

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

- Treatment : No information available.

### 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.

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### 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.  
Ensure adequate ventilation.  
Remove all sources of ignition.

### 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.

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In addition, the current technical information for this product and its application on [www.caparol.com](http://www.caparol.com) must be observed.

- Advice on protection against fire and explosion : 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 protective 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.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	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)		

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	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
Naphtha (petroleum), hydrotreated heavy; Low boiling point hydrogen treated naphtha	64742-48-9	AGW	300 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit category: 2;(II)				
Further information: Group exposure limit for hydrocarbon solvent mixtures				
Silica gel, pptd., cryst.-free	112926-00-8	AGW (Inhalable fraction)	4 mg/m <sup>3</sup> (Silica)	DE TRGS 900
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
Further information: Damage to the embryo or foetus is unlikely when the MAK value or the BAT value is observed				
aluminium oxide	1344-28-1	AGW (Inhalable fraction)	10 mg/m <sup>3</sup>	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>	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
(2-methoxymethylethoxy)propanol	34590-94-8	TWA	50 ppm 308 mg/m <sup>3</sup>	2000/39/EC
Further information: Identifies the possibility of significant uptake through the skin, Indicative				
		MAK	50 ppm 310 mg/m <sup>3</sup>	DE DFG MAK
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 (Vapour and aerosols)	50 ppm 310 mg/m <sup>3</sup>	DE TRGS 900
Peak-limit category: 1;(I)				

### 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; [in powder form contain-	Consumers	Ingestion	Long-term systemic effects	700,00 mg/kg bw/day

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ing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]				
	Workers	Inhalation	Long-term local effects	10,00 mg/m <sup>3</sup>
aluminium oxide	Consumers	Ingestion	Long-term systemic effects	6,58 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3,29 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	15,63 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	15,63 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	15,63 mg/m <sup>3</sup>
(2-methoxymethylethoxy)propanol	Consumers	Ingestion	Long-term systemic effects	0,33 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	475,00 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	202,00 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	36,00 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	121,00 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	37,20 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	308,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	404,00 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	283,00 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	950,00 mg/kg bw/day
propylidynetrimethanol	Workers	Inhalation	Long-term systemic effects	3,3 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	0,94 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0,58 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	0,34 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	0,34 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
titanium dioxide; [in powder form	Sewage treatment plant	100 mg/l

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containing 1 % or more of particles with aerodynamic diameter $\leq$ 10 $\mu\text{m}$ ]		
	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.)
	Intermittent use/release	0,193 mg/l
aluminium oxide	Sewage treatment plant	20 mg/l
	Fresh water	74,9 $\mu\text{g/l}$
(2-methoxymethylethoxy)propanol	Soil	2,2 mg/kg dry weight (d.w.)
	Intermittent use/release	192 mg/l
	Fresh water	19,2 mg/l
	Sewage treatment plant	4168 mg/l
	Sea water	1,92 mg/l
	Intermittent use/release	190 mg/l
	Fresh water sediment	70,2 mg/kg dry weight (d.w.)
	Sea water	1,9 mg/l
	Soil	2,74 mg/kg dry weight (d.w.)
	Sea sediment	7,02 mg/kg dry weight (d.w.)
	Fresh water	19 mg/l
propylidynetrimethanol	Fresh water	1 mg/l
	Sewage treatment plant	100 mg/l
	Sea sediment	0,351 mg/kg dry weight (d.w.)
	Sea water	0,1 mg/l
	Soil	0,241 mg/kg dry weight (d.w.)
	Fresh water sediment	3,505 mg/kg dry weight (d.w.)
	Intermittent use/release	10 mg/l

### 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



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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.
Respiratory protection	: No personal respiratory protective equipment normally required.  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	: No data available
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

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Flash point : < 63 °C

Autoignition temperature : not determined

Decomposition temperature : Not applicable

pH : 6,95  
Concentration: 10 %

Viscosity  
Viscosity, dynamic : No data available

Viscosity, kinematic : > 20,5 mm<sup>2</sup>/s (40 °C)

Flow time : > 60 s at 23 °C  
Cross section: 6 mm  
Method: ISO 2431

Solubility(ies)  
Water solubility : partly miscible

Partition coefficient: n-  
octanol/water : not determined

Vapor pressure : not determined

Relative density : not determined

Density : 1,3080 g/cm<sup>3</sup>

Relative vapor density : Heavier than air.

### 9.2 Other information

Explosives : Not applicable

Oxidizing properties : Not applicable

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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.

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### 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.

##### Product:

Acute inhalation toxicity : Acute toxicity estimate: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Calculation method

##### Components:

##### **Strontium Neodecanoate:**

Acute oral toxicity : LD50 (Rat, female): 1.030 mg/kg  
Method: OECD Test Guideline 425  
GLP: yes

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### 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.

### Serious eye damage/eye irritation

Not classified based on available information.

### Respiratory or skin sensitization

#### Skin sensitization

Not classified based on available information.

#### Respiratory sensitization

Not classified based on available information.

#### 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

Not classified based on available information.

### 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.

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### SECTION 12: Ecological information

#### 12.1 Toxicity

No data available

#### 12.2 Persistence and degradability

No data available

#### 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

##### **Strontium Neodecanoate:**

Partition coefficient: n-  
octanol/water : log Pow: 2,1 (25 °C)  
pH: 6,7

##### **(2-methoxymethylethoxy)propanol:**

Partition coefficient: n-  
octanol/water : Pow: 1,01 (25 °C)

#### 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:

Additional ecological information : An environmental hazard cannot be excluded in the event of unprofessional handling or disposal.

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### SECTION 13: Disposal considerations

#### 13.1 Waste treatment methods

- Product : Dispose of liquid material residues at the collection point for old paints/varnishes, dispose of dried material residues as construction and demolition waste or as municipal waste or household waste.
- Waste should not be disposed of via wastewater.
- 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\*

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### 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

#### 14.4 Packing group

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<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.

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## 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 If you intend to use this product as tattoo ink, please contact your vendor.
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REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59).	:	None
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Regulation (EC) 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 European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.	:	Not applicable
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Water hazard class (Germany)	:	WGK 1 slightly water endangering Classification according to AwSV, Annex 1 (5.2)
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- .
- Volatile organic compounds : BSL20 Coating materials, solvent-based, aromatic-free, classified
- Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 23,13 %
- Volatile organic compounds : Directive 2004/42/EC  
< 24 %  
< 310 g/l

### Other regulations:

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

### 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

- H302 : Harmful if swallowed.
- H304 : May be fatal if swallowed and enters airways.
- H318 : Causes serious eye damage.
- H351 : Suspected of causing cancer if inhaled.
- H360D : May damage the unborn child.
- H361fd : Suspected of damaging fertility. Suspected of damaging the unborn child.
- EUH066 : Repeated exposure may cause skin dryness or cracking.

### Full text of other abbreviations

- Acute Tox. : Acute toxicity
- Asp. Tox. : Aspiration hazard
- Carc. : Carcinogenicity
- Eye Dam. : Serious eye damage
- Repr. : Reproductive toxicity
- 2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values
- 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.
- 2000/39/EC / TWA : Limit Value - eight hours
- DE DFG MAK / MAK : MAK value
- DE TRGS 527 / BM : Assessment scale
- DE TRGS 900 / AGW : Time Weighted Average



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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 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

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.

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### 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 up-stream-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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