

# SAFETY DATA SHEET

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

**VOSSCHEMIE**

## Yachtcare Antifouling Plus rood

Version		Revision Date:	Date of last issue: 01.11.2023
1.2	DE / EN	05.03.2024	Date of first issue: 15.07.2022

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

#### 1.1 Product identifier

Trade name : Yachtcare Antifouling Plus rood  
Product code : 156.236

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

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

Recommended restrictions : Industrial use, professional use, public use  
on use

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

Company : Vosschemie GmbH  
Esinger Steinweg 50  
25436 Uetersen  
Germany  
info@vosschemie.de

Telephone : 04122 717 0  
Telefax : 04122 717158

**Responsible Department** : Laboratory  
04122 717 0  
sds@vosschemie.de

#### 1.4 Emergency telephone

Telephone : Giftinformationszentrum (GIZ)-Nord,  
Göttingen, Deutschland  
0551 19240

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### SECTION 2: Hazards identification





#### 2.1 Classification of the substance or mixture

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

Flammable liquids, Category 3	H226: Flammable liquid and vapor.
Serious eye damage, Category 1	H318: Causes serious eye damage.
Skin sensitization, Category 1	H317: May cause an allergic skin reaction.
Specific target organ toxicity - single exposure, Category 3, Central nervous system	H336: May cause drowsiness or dizziness.
Specific target organ toxicity - single exposure, Category 3, Respiratory system	H335: May cause respiratory irritation.
Short-term (acute) aquatic hazard, Category 1	H400: Very toxic to aquatic life.
Long-term (chronic) aquatic hazard, Category 1	H410: Very toxic to aquatic life with long lasting effects.

#### 2.2 Label elements

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

Hazard pictograms	:	   
Signal Word	:	Danger
Hazard Statements	:	H226 Flammable liquid and vapor. H317 May cause an allergic skin reaction. H318 Causes serious eye damage. H335 May cause respiratory irritation. H336 May cause drowsiness or dizziness. H410 Very toxic to aquatic life with long lasting effects.
Supplemental Hazard Statements	:	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.
		<b>Prevention:</b>
	:	P210 Keep away from heat, hot surfaces, sparks, open

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P271 flames and other ignition sources. No smoking.  
Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water/ shower.  
P304 + P340 IF INHALED: Remove person to fresh air and keep comfortable for breathing.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.  
P362 + P364 Take off contaminated clothing and wash it before reuse.

### Storage:

P403 + P235 Store in a well-ventilated place. Keep cool.

### Disposal:

P501 Dispose of contents/ container to an approved facility in accordance with local, regional, national and international regulations.

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

solvent naphtha (petroleum), light arom.  
rosin  
dicopper oxide  
xylene

### Additional Labeling

The product falls under the regulation on biocide products (EU) 528/2012.

Contains dicopper oxide.

### 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.

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### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

Chemical nature : Mixture

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
solvent naphtha (petroleum), light arom.	64742-95-6 265-199-0 649-356-00-4 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 10 - <= 25
zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32	Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 10 - <= 25
rosin	8050-09-7 232-475-7 650-015-00-7 01-2119480418-32	Skin Sens. 1; H317	>= 10 - <= 25
dicopper oxide	1317-39-1 215-270-7 029-002-00-X 01-2119513794-36	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 100 M-Factor (Chronic aquatic toxicity): 10  Acute toxicity estimate	>= 1 - <= 10

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		Acute oral toxicity: 500 mg/kg Acute inhalation toxicity (dust/mist): 3,34 mg/l	
xylene	1330-20-7 215-535-7 601-022-00-9 01-2119488216-32	Flam. Liq. 3; H226 Acute Tox. 4; H332 Acute Tox. 4; H312 Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335 (Respiratory system) STOT RE 2; H373 (Central nervous system, Liver, Kidney) Asp. Tox. 1; H304 Aquatic Chronic 3; H412 <hr/> Acute toxicity estimate <hr/> Acute inhalation toxicity (vapor): 11 mg/l	>= 1 - < 8
ethylbenzene	100-41-4 202-849-4 601-023-00-4 01-2119489370-35	Flam. Liq. 2; H225 Acute Tox. 4; H332 STOT RE 2; H373 (hearing organs) Asp. Tox. 1; H304 Aquatic Chronic 3; H412	>= 1 - < 2

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : In the case of accident or if you feel unwell, seek medical advice immediately.  
Move out of dangerous area.  
Take off contaminated clothing and shoes immediately.  
Do not leave the victim unattended.  
Symptoms of poisoning may appear several hours later.  
Show this material safety data sheet to the doctor in attendance.
- Protection of first-aiders : First Aid responders should pay attention to self-protection and use the recommended protective clothing
- If inhaled : Move to fresh air.  
Keep patient warm and at rest.

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- If breathing is irregular or stopped, administer artificial respiration.  
Call a physician immediately.
- In case of skin contact : Wash skin thoroughly with soap and water or use recognized skin cleanser.  
Call a physician if irritation develops or persists.  
Do NOT use solvents or thinners.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
Keep eye wide open while rinsing.  
If easy to do, remove contact lens, if worn.  
Consult a physician.
- If swallowed : Keep at rest.  
Do NOT induce vomiting.  
Call a physician immediately.

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

- Risks : May cause an allergic skin reaction.  
Causes serious eye damage.  
May cause respiratory irritation.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

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

- Treatment : Treat symptomatically.
- 

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet  
Alcohol-resistant foam
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during fire fighting : Vapors may form explosive mixtures with air.  
If the temperature rises there is danger of the vessels bursting due to the high vapor pressure.  
Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.
- Hazardous combustion products : Hazardous decomposition products due to incomplete combustion

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Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).  
Metal oxides

### 5.3 Advice for firefighters

- Special protective equipment for fire-fighters : In the event of fire and/or explosion do not breathe fumes. In the event of fire, wear self-contained breathing apparatus. Use personal protective equipment.
- Specific extinguishing methods : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
- Further information : Use water spray to cool unopened containers. Collect contaminated fire extinguishing water separately. This must not be discharged into drains. Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- 

## SECTION 6: Accidental release measures

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

- Personal precautions : First aider needs to protect himself. Wear personal protective equipment. Evacuate personnel to safe areas. Ensure adequate ventilation. Avoid inhalation of vapor or mist. Remove all sources of ignition. Do not smoke. Avoid contact with skin, eyes and clothing. In the case of vapor formation use a respirator with an approved filter.

### 6.2 Environmental precautions

- Environmental precautions : Prevent spreading over a wide area (e.g., by containment or oil barriers). Do not flush into surface water or sanitary sewer system. Local authorities should be advised if significant spillages cannot be contained.

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

- Methods for cleaning up : Contain spillage, soak up with non-combustible absorbent material, (e.g. sand, earth, diatomaceous earth, vermiculite) and transfer to a container for disposal according to local / national regulations (see section 13). Non-sparking tools should be used. Keep in suitable, closed containers for disposal.

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### 6.4 Reference to other sections

For personal protection see section 8., For disposal considerations see section 13.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Keep container closed when not in use.  
Provide sufficient air exchange and/or exhaust in work rooms.  
Wear personal protective equipment.

Do not get in eyes.  
Do not get on skin or clothing.  
Avoid inhalation of vapor or mist.

Advice on protection against fire and explosion : Vapors may form explosive mixtures with air. Keep away from open flames, hot surfaces and sources of ignition. Do not smoke. Take measures to prevent the build up of electrostatic charge. Use explosion-proof equipment.

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

Requirements for storage areas and containers : Store in original container. Keep containers tightly closed in a dry, cool and well-ventilated place.

Further information on storage conditions : Storage must be in accordance with the BetrSichV (Germany). Keep away from heat and sources of ignition. Protect from moisture. Keep away from direct sunlight.

Advice on common storage : Keep away from food and drink.  
Incompatible with oxidizing agents.

Storage class (TRGS 510) : 3

### 7.3 Specific end use(s)

Specific use(s) : No data 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
xylene	1330-20-7	TWA	50 ppm 221 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the			



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	skin, Indicative			
		AGW	50 ppm 220 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: Skin absorption			
		MAK	50 ppm 220 mg/m <sup>3</sup>	DE DFG MAK
	Further information: Danger of absorption through the skin, 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			
ethylbenzene	100-41-4	TWA	100 ppm 442 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	200 ppm 884 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		AGW	20 ppm 88 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 2;(II)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
		MAK	20 ppm 88 mg/m <sup>3</sup>	DE DFG MAK
	Further information: Danger of absorption through the skin, 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			

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
xylene	1330-20-7	methylhippuric acid (all isomers): 2.000 mg/l (Urine)	Immediately after exposure or after working hours	TRGS 903
		Methylhippuric acid (toluric acid) (all isomers): 2.000 mg/l (Urine)	Immediately after exposition or after working hours	DE DFG BAT
ethylbenzene	100-41-4	mandelic acid + phenylglyoxylic acid: 250 mg/g creatinine (Urine)	Immediately after exposure or after working hours	TRGS 903
		mandelic acid plus phenylglyoxylic acid: 250 mg/g creatinine (Urine)	Immediately after exposition or after working hours	DE DFG BAT

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

Substance name	End Use	Routes of exposure	Potential health effects	Value
solvent naphtha (petroleum), light arom.	Consumers	Oral	Long-term systemic effects	11 mg/kg
	Consumers	Skin contact	Long-term systemic effects	11 mg/kg
	Consumers	Inhalation	Long-term systemic effects	32 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	25 mg/kg
	Workers	Inhalation	Long-term systemic effects	150 mg/m <sup>3</sup>
zinc oxide	Workers	Inhalation	Long-term systemic effects	5 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Inhalation	Long-term systemic effects	2,5 mg/m <sup>3</sup>
	Consumers	Dermal	Long-term systemic effects	83 mg/kg
	Consumers	Oral	Long-term systemic effects	0,83 mg/kg
xylene	Workers	Inhalation	Long-term systemic effects, Long-term local effects	221 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects, Acute local effects	442 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	212 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects, Long-term local effects	65,3 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects, Acute local effects	260 mg/m <sup>3</sup>
Consumers	Skin contact	Long-term systemic effects	125 mg/kg bw/day	
Consumers	Oral	Long-term systemic effects	12,5 mg/kg bw/day	

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

Substance name	Environmental Compartment	Value
zinc oxide	Fresh water	0,0206 mg/l
	Sea water	0,0061 mg/l
	Sewage treatment plant (STP)	0,1 mg/l
	Fresh water sediment	117,8 mg/kg
	Sea sediment	56,5 mg/kg
xylene	Soil	35,6 mg/kg
	Fresh water	0,327 mg/l
	Sea water	0,327 mg/l

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	Fresh water sediment	12,46 mg/kg dry weight (d.w.)
	Sea sediment	12,46 mg/kg dry weight (d.w.)
	Soil	2,31 mg/kg dry weight (d.w.)
	Sewage treatment plant (STP)	6,58 mg/l

### 8.2 Exposure controls

#### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

#### Hand protection

Material : Viton®  
Break through time : > 480 min  
Directive : DIN EN 374  
Protective index : Class 6

Material : Nitrile rubber  
Break through time : > 480 min  
Glove thickness :  $\geq 0,4$  mm  
Directive : DIN EN 374  
Protective index : Class 6

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. The data about break through time/strength of material are standard values! The exact break through time/strength of material has to be obtained from the producer of the protective glove. The choice of an appropriate glove does not only depend on its material but also on other quality features and is different from one producer to the other. Preventive skin protection

Skin and body protection : Please wear suitable protective clothing, e.g. made of cotton or heat-resistant synthetic fibres.  
Long sleeved clothing

Respiratory protection : Apply technical measures to comply with the occupational exposure limits.  
Use the indicated respiratory protection if the occupational exposure limit is exceeded and/or in case of product release (dust).

Filter type : Combined particulates and organic vapor type (A-P)

Protective measures : Ensure that eye flushing systems and safety showers are located close to the working place.  
Avoid contact with the skin and the eyes.  
Use only with adequate ventilation.

#### Environmental exposure controls

Soil : Avoid subsoil penetration.

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### SECTION 9: Physical and chemical properties

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

Physical state	:	liquid
Color	:	red
Odor	:	solvent
Melting point/range	:	No data available
Initial boiling point and boiling range	:	140 - 200 °C
Upper explosion limit / Upper flammability limit	:	7,6 %(V)
Lower explosion limit / Lower flammability limit	:	1,4 %(V)
Flash point	:	23 °C
Autoignition temperature	:	No data available
pH	:	not determined substance/mixture is non-soluble (in water)
Viscosity		
Viscosity, dynamic	:	not determined
Viscosity, kinematic	:	126 mm <sup>2</sup> /s (23 °C)
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	No data available

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Vapor pressure : No data available

Density : 1,46 g/cm<sup>3</sup>

### 9.2 Other information

Explosives : Not explosive  
In use, may form flammable/explosive vapour-air mixture.

Flammability (liquids) : Flammable

Self-ignition : not auto-flammable

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if used 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.  
No dangerous reaction known under conditions of normal use.

### 10.4 Conditions to avoid

Conditions to avoid : Heat, flames and sparks.

### 10.5 Incompatible materials

Materials to avoid : Incompatible with oxidizing agents.

### 10.6 Hazardous decomposition products

Build-up of dangerous/toxic fumes possible in cases of fire/high temperature.  
Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Based on available data, the classification criteria are not met.

#### Product:

Acute oral toxicity : Acute toxicity estimate: ca. 17.848 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: ca. 72 mg/l

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Test atmosphere: vapor

Acute dermal toxicity : Acute toxicity estimate: ca. 17.857 mg/kg  
Method: Expert judgment

### Components:

#### **solvent naphtha (petroleum), light arom.:**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

Acute inhalation toxicity : LC50 (Rat): > 5,61 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 403  
Assessment: The substance or mixture has no acute inhalation toxicity

Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **zinc oxide:**

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg  
Method: OECD Test Guideline 401

#### **rosin:**

Acute oral toxicity : LD50 Oral (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 423  
Assessment: The substance or mixture has no acute oral toxicity

Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402  
Assessment: The substance or mixture has no acute dermal toxicity

#### **dicopper oxide:**

Acute oral toxicity : Acute toxicity estimate: 500 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : Acute toxicity estimate: 3,34 mg/l  
Test atmosphere: dust/mist  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

#### **xylene:**

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Acute oral toxicity : LD50 Oral (Rat): 3.523 mg/kg

Acute inhalation toxicity : Acute toxicity estimate: 11 mg/l  
Exposure time: 4 h  
Test atmosphere: vapor  
Method: Expert judgment

Acute dermal toxicity : LD50 (Rabbit): > 1.700 mg/kg

### **ethylbenzene:**

Acute oral toxicity : LD50 (Rat): 3.500 mg/kg

### **Skin corrosion/irritation**

Repeated exposure may cause skin dryness or cracking.

### **Components:**

#### **solvent naphtha (petroleum), light arom.:**

Assessment : Repeated exposure may cause skin dryness or cracking.

#### **xylene:**

Result : Skin irritation

### **Serious eye damage/eye irritation**

Causes serious eye damage.

### **Components:**

#### **xylene:**

Result : Moderate eye irritation

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified due to lack of data.

#### **Germ cell mutagenicity**

Not classified due to lack of data.

### **Components:**

#### **solvent naphtha (petroleum), light arom.:**

Germ cell mutagenicity- Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

### **Carcinogenicity**

Not classified due to lack of data.

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### Components:

#### **solvent naphtha (petroleum), light arom.:**

Carcinogenicity - Assessment : Classified based on benzene content < 0.1% (Regulation (EC) 1272/2008, Annex VI, Part 3, Note P)

#### **Reproductive toxicity**

Not classified due to lack of data.

#### **STOT-single exposure**

May cause respiratory irritation.  
May cause drowsiness or dizziness.

### Components:

#### **solvent naphtha (petroleum), light arom.:**

Assessment : May cause respiratory irritation., May cause drowsiness or dizziness.

#### **xylene:**

Assessment : May cause respiratory irritation.

#### **STOT-repeated exposure**

Not classified due to lack of data.

### Components:

#### **xylene:**

Target Organs : Central nervous system, Liver, Kidney  
Assessment : May cause damage to organs through prolonged or repeated exposure.

#### **ethylbenzene:**

Target Organs : hearing organs  
Assessment : May cause damage to organs through prolonged or repeated exposure.

#### **Aspiration toxicity**

Not classified due to lack of data.

### Components:

#### **solvent naphtha (petroleum), light arom.:**

May be fatal if swallowed and enters airways.

#### **xylene:**

May be fatal if swallowed and enters airways.



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### 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.

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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Components:

##### **solvent naphtha (petroleum), light arom.:**

Toxicity to fish : LL50 (Pimephales promelas (fathead minnow)): 8,2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EL50 (Daphnia magna (Water flea)): 4,5 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EL50 (Pseudokirchneriella subcapitata (green algae)): 3,1 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOELR: 2,6 mg/l  
Exposure time: 14 d  
Species: Pimephales promelas (fathead minnow)  
Method: OECD Test Guideline 204

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOELR: 2,6 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

#### **Ecotoxicology Assessment**

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

##### **zinc oxide:**

Toxicity to fish : LC50 (Danio rerio (zebra fish)): 3,31 mg/l  
End point: mortality  
Exposure time: 96 h

Toxicity to daphnia and other : LC50 (Daphnia magna (Water flea)): 0,76 mg/l

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aquatic invertebrates	:	End point: mortality Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	IC50 (Pseudokirchneriella subcapitata (green algae)): 0,136 mg/l End point: Growth rate Exposure time: 72 h Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	:	1
Toxicity to microorganisms	:	EC50 (Bacteria): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,44 mg/l End point: mortality Exposure time: 72 d Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 0,058 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	1
<b>rosin:</b>		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 1,7 mg/l End point: mortality Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to algae/aquatic plants	:	EC50 (Desmodesmus subspicatus (green algae)): 16,5 mg/l Exposure time: 72 h Method: Regulation (EC) No. 440/2008, Annex, C.3
Toxicity to microorganisms	:	EC50 (Bacteria): > 10.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
<b>dicopper oxide:</b>		
Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 0,038 mg/l End point: mortality Exposure time: 96 h
Toxicity to daphnia and other aquatic invertebrates	:	LC50 (Ceriodaphnia dubia (water flea)): 0,030 mg/l Exposure time: 48 h

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Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,025 mg/l  
End point: Growth rate  
Exposure time: 72 h

M-Factor (Acute aquatic toxicity) : 100

Toxicity to fish (Chronic toxicity) : NOEC: 0,0022 mg/l  
End point: mortality  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,004 mg/l  
Species: Ceriodaphnia dubia (water flea)

M-Factor (Chronic aquatic toxicity) : 10

### **xylene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 2,6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 4,6 mg/l  
Exposure time: 72 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

Toxicity to fish (Chronic toxicity) : NOEC: > 1,3 mg/l  
Exposure time: 56 d  
Species: Oncorhynchus mykiss (rainbow trout)

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,96 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)  
Method: Regulation (EC) No. 440/2008, Annex, C.20

### **ethylbenzene:**

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 4,2 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 1,8 mg/l  
Exposure time: 48 h

Toxicity to algae/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): 4,6 mg/l  
Exposure time: 72 h

Toxicity to daphnia and other aquatic invertebrates (Chronic) : NOEC: 1 mg/l  
Species: Ceriodaphnia dubia (water flea)

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ic toxicity)

### 12.2 Persistence and degradability

#### Components:

##### **solvent naphtha (petroleum), light arom.:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301F

##### **rosin:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 89 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301B

##### **xylene:**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301

##### **ethylbenzene:**

Biodegradability : Result: rapidly degradable  
Biodegradation: 79 %  
Exposure time: 10 d

### 12.3 Bioaccumulative potential

#### Components:

##### **solvent naphtha (petroleum), light arom.:**

Partition coefficient: n-octanol/water : log Pow: > 2,92 - 3,59

##### **rosin:**

Partition coefficient: n-octanol/water : log Pow: > 3 - 6,2  
pH: 6 - < 7

##### **dicopper oxide:**

Partition coefficient: n-octanol/water : Remarks: No data available

##### **xylene:**

Bioaccumulation : Species: Oncorhynchus mykiss (rainbow trout)  
Bioconcentration factor (BCF): 25,9

Partition coefficient: n-octanol/water : log Pow: 3,155 (20 °C)

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### **ethylbenzene:**

Partition coefficient: n-octanol/water : log Pow: 3,6 (20 °C)

### 12.4 Mobility in soil

#### **Components:**

#### **solvent naphtha (petroleum), light arom.:**

Distribution among environmental compartments : Koc: < 229,2, log Koc: > 2,36

### 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 : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not dispose of with domestic refuse.  
Do not empty into drains, dispose of this material and its container at hazardous or special waste collection point.  
Dispose of in accordance with local regulations.  
Send to a licensed waste management company.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.  
Store containers and offer for recycling of material when in accordance with the local regulations.  
Packaging that is not properly emptied must be disposed of as

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the unused product.  
Dispose of in accordance with local regulations.

Waste Code : The following Waste Codes are only suggestions:  
08 01 11, waste paint and varnish containing organic solvents  
or other hazardous substances

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### SECTION 14: Transport information

#### 14.1 UN number or ID number

ADN : UN 1263  
ADR : UN 1263  
RID : UN 1263  
IMDG : UN 1263  
IATA : UN 1263

#### 14.2 UN proper shipping name

ADN : PAINT  
(Low boiling point naphtha - unspecified, xylene)  
ADR : PAINT  
(Low boiling point naphtha - unspecified, xylene)  
RID : PAINT  
(Low boiling point naphtha - unspecified, xylene)  
IMDG : PAINT  
(Low boiling point naphtha - unspecified, xylene, dicopper  
oxide, zinc oxide)  
IATA : Paint  
(Low boiling point naphtha - unspecified, xylene)

#### 14.3 Transport hazard class(es)

	Class	Subsidiary risks
ADN	: 3	
ADR	: 3	
RID	: 3	
IMDG	: 3	
IATA	: 3	

#### 14.4 Packing group

ADN  
Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

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### ADR

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3  
Tunnel restriction code : (D/E)

### RID

Packing group : III  
Classification Code : F1  
Hazard Identification Number : 30  
Labels : 3

### IMDG

Packing group : III  
Labels : 3  
EmS Code : F-E, S-E

### IATA (Cargo)

Packing instruction (cargo aircraft) : 366  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

### IATA (Passenger)

Packing instruction (passenger aircraft) : 355  
Packing instruction (LQ) : Y344  
Packing group : III  
Labels : Flammable Liquids

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : yes

### ADR

Environmentally hazardous : yes

### RID

Environmentally hazardous : yes

### IMDG

Marine pollutant : yes

## 14.6 Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## 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, 3

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). : Not applicable

Regulation (EC) No 1005/2009 on substances that deplete the ozone layer : Not applicable

Regulation (EU) 2019/1021 on persistent organic pollutants (recast) : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : Not applicable

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances. P5c FLAMMABLE LIQUIDS

E1 ENVIRONMENTAL HAZARDS

Water hazard class (Germany) : WGK 2 obviously hazardous to water

#### Other regulations:

The product falls under the regulation on biocide products (EU) 528/2012. Antifouling products

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 according to (EC) regulation 1907/2006 (REACH) has not been carried out for this product.



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### SECTION 16: Other information

#### Full text of H-Statements

H225 : Highly flammable liquid and vapor.  
H226 : Flammable liquid and vapor.  
H302 : Harmful if swallowed.  
H304 : May be fatal if swallowed and enters airways.  
H312 : Harmful in contact with skin.  
H315 : Causes skin irritation.  
H317 : May cause an allergic skin reaction.  
H318 : Causes serious eye damage.  
H319 : Causes serious eye irritation.  
H332 : Harmful if inhaled.  
H335 : May cause respiratory irritation.  
H336 : May cause drowsiness or dizziness.  
H373 : May cause damage to organs through prolonged or repeated exposure.  
  
H400 : Very toxic to aquatic life.  
H410 : Very toxic to aquatic life with long lasting effects.  
H411 : 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.

#### 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  
Eye Irrit. : Eye irritation  
Flam. Liq. : Flammable liquids  
Skin Irrit. : Skin irritation  
Skin Sens. : Skin sensitization  
STOT RE : Specific target organ toxicity - repeated exposure  
STOT SE : Specific target organ toxicity - single exposure  
2000/39/EC : Europe. Commission Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values  
  
DE DFG BAT : Germany. MAK BAT Annex XIII  
DE DFG MAK : Germany. MAK BAT Annex IIa  
DE TRGS 900 : Germany. TRGS 900 - Occupational exposure limit values.  
TRGS 903 : c - Biological limit values  
2000/39/EC / TWA : Limit Value - eight hours  
2000/39/EC / STEL : Short term exposure limit  
DE DFG MAK / MAK : MAK value  
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; AIIC - 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 -

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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; KECI - 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; TECI - 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

#### Classification of the mixture:

Flam. Liq. 3	H226
Eye Dam. 1	H318
Skin Sens. 1	H317
STOT SE 3	H336
STOT SE 3	H335
Aquatic Acute 1	H400
Aquatic Chronic 1	H410

#### Classification procedure:

Based on product data or assessment
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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