

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE**

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version	Revision Date:	Date of last issue: 11.07.2022
1.1 DE / EN	12.07.2022	Date of first issue: 11.07.2022

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

#### 1.1 Product identifier

Trade name : Yachtcare EP Fugenpaste schwarz B-Komponente  
Product code : 158.549

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

Use of the Sub-stance/Mixture : Curing chemical  
Recommended restrictions on use : Industrial use, professional use, public 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

**Yachtcare EP Fugenpaste schwarz B-Komponente**

Version

1.1

DE / EN

Revision Date:

12.07.2022

Date of last issue: 11.07.2022

Date of first issue: 11.07.2022

**SECTION 2: Hazards identification****2.1 Classification of the substance or mixture****Classification (REGULATION (EC) No 1272/2008)**

Acute toxicity, Category 4

H302: Harmful if swallowed.

Skin corrosion, Sub-category 1B

H314: Causes severe skin burns and eye damage.

Serious eye damage, Category 1

H318: Causes serious eye damage.

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

Hazard pictograms :



Signal Word : Danger

Hazard Statements : H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H317 May cause an allergic skin reaction.  
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements : P101 If medical advice is needed, have product container or label at hand.  
P102 Keep out of reach of children.

**Prevention:**

P261 Avoid breathing mist or vapors.  
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.  
P304 + P340 + P310 IF INHALED: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/ doctor.  
P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if pre-

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VOSSCHEMIE

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Version

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DE / EN

Revision Date:

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sent and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

### 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:

3-aminomethyl-3,5,5-trimethylcyclohexylamine

Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer

m-phenylenebis(methylamine)

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)

### 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

Chemical nature : Mixture

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
benzyl alcohol	100-51-6 202-859-9 603-057-00-5 01-2119492630-38	Acute Tox. 4; H302 Acute Tox. 4; H332 Eye Irrit. 2; H319 <hr/> Acute toxicity estimate  Acute oral toxicity: 1.620 mg/kg Acute inhalation tox-	>= 25 - <= 50

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE****Yachtcare EP Fugenpaste schwarz B-Komponente**

Version

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DE / EN

Revision Date:

12.07.2022

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Date of first issue: 11.07.2022

		icity (dust/mist): 4,178 mg/l	
3-aminomethyl-3,5,5-trimethylcyclohexylamine	2855-13-2 220-666-8 612-067-00-9 01-2119514687-32	Acute Tox. 4; H302 Acute Tox. 4; H312 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1A; H317 Aquatic Chronic 3; H412  specific concentration limit Skin Sens. 1A; H317 >= 0,001 %  Acute toxicity esti- mate  Acute oral toxicity: 1.030 mg/kg Acute dermal toxicity: 1.100 mg/kg	>= 25 - <= 50
Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer	68609-08-5 614-657-1	Skin Corr. 1B; H314 Eye Dam. 1; H318	>= 25 - <= 50
2,4,6-tris(dimethylaminomethyl)phenol	90-72-2 202-013-9 603-069-00-0 01-2119560597-27	Acute Tox. 4; H302 Skin Corr. 1C; H314 Eye Dam. 1; H318	>= 2,5 - <= 10
salicylic acid	69-72-7 200-712-3 607-732-00-5 01-2119486984-17	Acute Tox. 4; H302 Eye Dam. 1; H318 Repr. 2; H361d  Acute toxicity esti- mate  Acute oral toxicity: 891 mg/kg	>= 1 - < 3
m-phenylenebis(methylamine)	1477-55-0 216-032-5 01-2119480150-50	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 Skin Sens. 1B; H317 Aquatic Chronic 3; H412  Acute toxicity esti- mate  Acute oral toxicity:	>= 1 - < 2,5

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version 1.1 DE / EN Revision Date: 12.07.2022 Date of last issue: 11.07.2022  
Date of first issue: 11.07.2022

		930 mg/kg Acute inhalation toxicity (dust/mist): 1,34 mg/l	
4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine)	113930-69-1 500-302-7 REACH Annex V No.4	Acute Tox. 4; H302 Skin Sens. 1B; H317 <hr/> Acute toxicity estimate  Acute oral toxicity: 1.000 mg/kg	>= 1 - < 2,5

For explanation of abbreviations see section 16.

### SECTION 4: First aid measures

#### 4.1 Description of first-aid measures

- General advice : First aider needs to protect himself.  
Remove from exposure, lie down.  
If unconscious, place in recovery position and seek medical advice.  
Take off contaminated clothing and shoes immediately.
- If inhaled : Move to fresh air.  
Get medical attention.
- In case of skin contact : Wash off immediately with soap and plenty of water.  
Get medical attention immediately.
- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.  
If easy to do, remove contact lens, if worn.  
Protect unharmed eye.  
Call a physician immediately.
- If swallowed : Rinse mouth.  
Do NOT induce vomiting.  
Call a physician immediately.

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

- Risks : Harmful if swallowed.  
May cause an allergic skin reaction.  
Causes serious eye damage.  
Causes severe burns.

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

- Treatment : Treat symptomatically.

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version	Revision Date:	Date of last issue: 11.07.2022
1.1 DE / EN	12.07.2022	Date of first issue: 11.07.2022

---

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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.  
Carbon dioxide (CO<sub>2</sub>)  
Dry powder  
Water spray jet

Unsuitable extinguishing media : High volume water jet

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

Specific hazards during fire fighting : Hazardous decomposition products formed under fire conditions.

Hazardous combustion products : Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).  
Nitrogen oxides (NO<sub>x</sub>)

#### 5.3 Advice for firefighters

Special protective equipment for fire-fighters : Wear self-contained breathing apparatus and protective suit.

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.  
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 : Wear personal protective equipment.  
Evacuate personnel to safe areas.  
Ensure adequate ventilation, especially in confined areas.  
Remove all sources of ignition.  
Do not smoke.  
Avoid contact with skin, eyes and clothing.

#### 6.2 Environmental precautions

Environmental precautions : Do not flush into surface water or sanitary sewer system.  
If the product contaminates rivers and lakes or drains inform respective authorities.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version 1.1 DE / EN Revision Date: 12.07.2022 Date of last issue: 11.07.2022  
Date of first issue: 11.07.2022

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

Methods for cleaning up : Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).  
Shovel into suitable container for disposal.

### 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

Technical measures : Ensure that eyewash stations and safety showers are close to the workstation location.

Advice on safe handling : Handle in accordance with good industrial hygiene and safety practice.  
Wear personal protective equipment.  
Never return unused material to storage receptacle.  
Avoid inhalation of vapor or mist.  
Keep container closed when not in use.

Advice on protection against fire and explosion : Keep away from open flames, hot surfaces and sources of ignition. 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. Keep away from heat and sources of ignition. Keep away from direct sunlight.

Advice on common storage : Keep away from food and drink.

Storage class (TRGS 510) : 8A

### 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
benzyl alcohol	100-51-6	AGW (Vapour	5 ppm	DE TRGS

**SAFETY DATA SHEET**

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE****Yachtcare EP Fugenpaste schwarz B-Komponente**

Version

1.1

DE / EN

Revision Date:

12.07.2022

Date of last issue: 11.07.2022

Date of first issue: 11.07.2022

	and aerosols)	22 mg/m <sup>3</sup>	900
	Peak-limit category: 2;(l)		
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child		

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

Substance name	End Use	Routes of exposure	Potential health effects	Value
benzyl alcohol	Workers	Inhalation	Long-term systemic effects	22 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	110 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	8 mg/kg
	Workers	Skin contact	Acute systemic effects	40 mg/kg
	Consumers	Inhalation	Long-term systemic effects	5,4 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute systemic effects	27 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	4 mg/kg
	Consumers	Skin contact	Acute systemic effects	20 mg/kg
	Consumers	Oral	Long-term systemic effects	4 mg/kg
	Consumers	Oral	Acute systemic effects	20 mg/kg
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Workers	Inhalation	Long-term local effects, Acute local effects	0,073 mg/m <sup>3</sup>
	Consumers	Oral	Long-term systemic effects	0,526 mg/kg
salicylic acid	Workers	Inhalation	Long-term systemic effects, Long-term local effects	5 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	2,3 mg/kg
	Consumers	Inhalation	Long-term systemic effects	4 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	1 mg/kg
	Consumers	Oral	Long-term systemic effects	1 mg/kg
	Consumers	Oral	Acute systemic effects	4 mg/kg

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

Substance name	Environmental Compartment	Value
benzyl alcohol	Fresh water	1 mg/l
	Sea water	0,1 mg/l



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE**

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version

1.1

DE / EN

Revision Date:

12.07.2022

Date of last issue: 11.07.2022

Date of first issue: 11.07.2022

	Sewage treatment plant	39 mg/l
	Fresh water sediment	5,27 mg/kg
	Sea sediment	0,527 mg/kg
3-aminomethyl-3,5,5-trimethylcyclohexylamine	Fresh water	0,06 mg/l
	Sea water	0,006 mg/l
	Sewage treatment plant	3,18 mg/l
	Fresh water sediment	5,784 mg/kg
	Sea sediment	0,578 mg/kg
	Soil	1,121 mg/kg
salicylic acid	Fresh water	0,2 mg/l
	Sea water	0,02 mg/l
	Sewage treatment plant	162 mg/l
	Fresh water sediment	1,42 mg/kg
	Sea sediment	0,142 mg/kg
	Soil	0,166 mg/kg

### 8.2 Exposure controls

#### Personal protective equipment

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

#### Hand protection

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

Material : PVC  
Break through time : > 480 min  
Glove thickness : >= 0,5 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.

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

Take off all contaminated clothing immediately.  
Wash contaminated clothing before re-use.

Respiratory protection : Apply technical measures to comply with the occupational

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE**

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version 1.1 DE / EN Revision Date: 12.07.2022 Date of last issue: 11.07.2022  
Date of first issue: 11.07.2022

---

exposure limits.  
When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

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.  
Follow the skin protection plan.  
Handle and open container with care.  
When using do not eat or drink.

### 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 : light yellow

Odor : amine-like

Melting point/freezing point : No data available

Initial boiling point and boiling range : > 200 °C

Upper explosion limit / Upper flammability limit : 13 %(V)

Lower explosion limit / Lower flammability limit : 1,2 %(V)

Flash point : > 100 °C

Autoignition temperature : 380 °C

pH : not determined substance/mixture is non-soluble (in water)

Viscosity

Viscosity, dynamic : 700 mPa.s (25 °C)  
Method: ISO 3219

Viscosity, kinematic : not determined

Solubility(ies)

Water solubility : immiscible

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version	Revision Date:	Date of last issue: 11.07.2022
1.1 DE / EN	12.07.2022	Date of first issue: 11.07.2022

---

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

Vapor pressure : 0,1 hPa (20 °C)

Density : 1,04 g/cm<sup>3</sup> (23 °C)

### 9.2 Other information

Explosives : Not explosive

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 : Incompatible with acids and bases.  
Incompatible with oxidizing agents.

### 10.4 Conditions to avoid

Conditions to avoid : No data available

### 10.5 Incompatible materials

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

### 10.6 Hazardous decomposition products

Carbon monoxide, carbon dioxide and unburned hydrocarbons (smoke).  
Nitrogen oxides (NO<sub>x</sub>)

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## SECTION 11: Toxicological information

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

#### Acute toxicity

Harmful if swallowed.

#### Product:

Acute oral toxicity : Acute toxicity estimate: 1.545 mg/kg  
Method: Calculation method

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version	Revision Date:	Date of last issue: 11.07.2022
1.1	12.07.2022	Date of first issue: 11.07.2022

DE / EN

- Acute inhalation toxicity : Acute toxicity estimate: > 5 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: Calculation method
- Acute dermal toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

### Components:

#### **benzyl alcohol:**

- Acute oral toxicity : LD50 Oral (Rat, male): 1.620 mg/kg  
  
Acute toxicity estimate: 1.620 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : LC50 (Rat): > 4,178 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403  
  
Acute toxicity estimate: 4,178 mg/l  
Test atmosphere: dust/mist  
Method: Calculation method
- Acute dermal toxicity : LD50 Dermal (Rabbit): > 2.000 mg/kg

#### **3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

- Acute oral toxicity : Acute toxicity estimate: 1.030 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008  
  
LD50 Oral (Rat): 1.030 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 (Rat): > 5,01 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403
- Acute dermal toxicity : Acute toxicity estimate: 1.100 mg/kg  
Method: Expert judgment

#### **Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer:**

- Acute oral toxicity : Based on available data, the classification criteria are not met.
- Acute dermal toxicity : Based on available data, the classification criteria are not met.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version 1.1 DE / EN Revision Date: 12.07.2022 Date of last issue: 11.07.2022  
Date of first issue: 11.07.2022

---

### salicylic acid:

- Acute oral toxicity : LD50 Oral (Rat): 891 mg/kg  
Method: OECD Test Guideline 401  
  
Acute toxicity estimate: 891 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : LCLo (Rat): > 0,7 mg/l  
Exposure time: 7 h  
Test atmosphere: vapor  
Method: OECD Test Guideline 412  
Assessment: The substance or mixture has no acute inhalation toxicity
- Acute dermal toxicity : LD50 Dermal (Rat): > 2.000 mg/kg  
Method: OECD Test Guideline 402

### m-phenylenebis(methylamine):

- Acute oral toxicity : LD50 Oral (Rat): 930 mg/kg  
Method: OECD Test Guideline 401  
  
Acute toxicity estimate: 930 mg/kg  
Method: Calculation method
- Acute inhalation toxicity : LC50 (Rat): 1,34 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
  
Acute toxicity estimate: 1,34 mg/l  
Test atmosphere: dust/mist  
Method: Calculation method
- Acute dermal toxicity : LD50 Dermal (Rat): > 3.100 mg/kg

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine):

- Acute oral toxicity : LD50: 1.000 mg/kg  
  
Acute toxicity estimate: 1.000 mg/kg  
Method: Calculation method

### Skin corrosion/irritation

Causes severe burns.

### Components:

**Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer:**

- Result : Corrosive after 3 minutes to 1 hour of exposure

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version 1.1 DE / EN Revision Date: 12.07.2022 Date of last issue: 11.07.2022  
Date of first issue: 11.07.2022

---

### **2,4,6-tris(dimethylaminomethyl)phenol:**

Result : Corrosive, category 1C - where responses occur after exposures between 1 hour and 4 hours and observations up to 14 days.  
Remarks : Acute dermal irritation/corrosion

### **m-phenylenebis(methylamine):**

Assessment : Causes burns.

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

Causes serious eye damage.

### **Components:**

#### **benzyl alcohol:**

Result : Moderate eye irritation

#### **Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer:**

Result : Irreversible effects on the eye

#### **salicylic acid:**

Result : Irreversible effects on the eye

#### **m-phenylenebis(methylamine):**

Result : Risk of serious damage to eyes.

### **Respiratory or skin sensitization**

#### **Skin sensitization**

May cause an allergic skin reaction.

#### **Respiratory sensitization**

Not classified based on available information.

### **Components:**

#### **m-phenylenebis(methylamine):**

Result : The product is a skin sensitizer, sub-category 1B.

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine):

Result : The product is a skin sensitizer, sub-category 1B.

### **Germ cell mutagenicity**

Not classified based on available information.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version

1.1

DE / EN

Revision Date:

12.07.2022

Date of last issue: 11.07.2022

Date of first issue: 11.07.2022

### **Carcinogenicity**

Not classified based on available information.

### **Reproductive toxicity**

Not classified based on available information.

### **Components:**

#### **salicylic acid:**

Reproductive toxicity - Assessment : Suspected of damaging the unborn child.

### **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:**

#### **benzyl alcohol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 460 mg/l  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 230 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Pseudokirchneriella subcapitata (green algae)): 500 mg/l  
Exposure time: 72 h

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version	Revision Date:	Date of last issue: 11.07.2022
1.1	12.07.2022	Date of first issue: 11.07.2022

DE / EN

Method: OECD Test Guideline 201

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 51 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### 3-aminomethyl-3,5,5-trimethylcyclohexylamine:

Toxicity to fish : LC50 (Leuciscus idus (Golden orfe)): 110 mg/l  
Exposure time: 96 h  
Method: Regulation (EC) No. 440/2008, Annex, C.1

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 23 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 50 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: Regulation (EC) No. 440/2008, Annex, C.3

Toxicity to microorganisms : EC10 (Pseudomonas putida): 1.120 mg/l  
Exposure time: 18 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 3 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer:

#### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### 2,4,6-tris(dimethylaminomethyl)phenol:

Toxicity to fish : LC50 (Cyprinus carpio (Carp)): 175 mg/l  
End point: mortality  
Exposure time: 96 h

Toxicity to daphnia and other aquatic invertebrates : LC50 (Palaeomonetes vulgaris (Grass shrimp)): 718 mg/l  
End point: mortality  
Exposure time: 96 h

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 84 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201



# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version 1.1 DE / EN Revision Date: 12.07.2022 Date of last issue: 11.07.2022  
Date of first issue: 11.07.2022

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### Ecotoxicology Assessment

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

### salicylic acid:

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 1.370 mg/l  
End point: mortality  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 870 mg/l  
End point: Immobilization  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
End point: Growth rate  
Exposure time: 72 h  
Method: OECD Test Guideline 201

Toxicity to microorganisms : EC50 (Pseudomonas putida): 500 mg/l  
End point: Growth rate  
Exposure time: 16 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 10 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)

### m-phenylenebis(methylamine):

Toxicity to fish : LC50 (Oryzias latipes (Orange-red killifish)): 87,6 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 15,2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 4,7 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211

### Ecotoxicology Assessment

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

**Yachtcare EP Fugenpaste schwarz B-Komponente**

Version	Revision Date:	Date of last issue: 11.07.2022
1.1 DE / EN	12.07.2022	Date of first issue: 11.07.2022

---

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine):

**Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Chronic aquatic toxicity : This product has no known ecotoxicological effects.

**12.2 Persistence and degradability****Components:****3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Biodegradability : Biodegradation: 8 %  
Exposure time: 28 d  
Method: Regulation (EC) No. 440/2008, Annex, C.4-A

**m-phenylenebis(methylamine):**

Biodegradability : Result: Not rapidly biodegradable

**12.3 Bioaccumulative potential****Components:****3-aminomethyl-3,5,5-trimethylcyclohexylamine:**

Partition coefficient: n- : log Pow: 0,99 (23 °C)  
octanol/water pH: 6,34

**Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer:**

Partition coefficient: n- : log Pow: 2,36 (20 °C)  
octanol/water

**2,4,6-tris(dimethylaminomethyl)phenol:**

Partition coefficient: n- : log Pow: -0,66 (21,5 °C)  
octanol/water

**salicylic acid:**

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

**m-phenylenebis(methylamine):**

Partition coefficient: n- : log Pow: 0,18 (25 °C)  
octanol/water Method: OECD Test Guideline 107

4,4'-Isopropylidenediphenol, oligomeric reaction products with 1-chloro-2,3-epoxypropane, reaction products with m-phenylenebis(methylamine):

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

**VOSSCHEMIE**

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version	Revision Date:	Date of last issue: 11.07.2022
1.1 DE / EN	12.07.2022	Date of first issue: 11.07.2022

---

Partition coefficient: n-octanol/water : log Pow: 3,6 (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 : No data available

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

Product : Do not mix waste streams during collection.  
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.

Contaminated packaging : Dispose of as unused product.

Waste Code : The following Waste Codes are only suggestions:  
07 02 08, other still bottoms and reaction residues

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## SECTION 14: Transport information

### 14.1 UN number or ID number

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version 1.1 DE / EN Revision Date: 12.07.2022 Date of last issue: 11.07.2022  
Date of first issue: 11.07.2022

**ADN** : UN 2735  
**ADR** : UN 2735  
**RID** : UN 2735  
**IMDG** : UN 2735  
**IATA** : UN 2735

### 14.2 UN proper shipping name

**ADN** : AMINES, LIQUID, CORROSIVE, N.O.S.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer, 2,4,6-tris(dimethylaminomethyl)phenol)

**ADR** : AMINES, LIQUID, CORROSIVE, N.O.S.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer, 2,4,6-tris(dimethylaminomethyl)phenol)

**RID** : AMINES, LIQUID, CORROSIVE, N.O.S.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer, 2,4,6-tris(dimethylaminomethyl)phenol)

**IMDG** : AMINES, LIQUID, CORROSIVE, N.O.S.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer, 2,4,6-tris(dimethylaminomethyl)phenol)

**IATA** : Amines, liquid, corrosive, n.o.s.  
(3-aminomethyl-3,5,5-trimethylcyclohexylamine, Cyclohexanemethanamine, 5-amino-1,3,3-trimethyl-, reaction products with bisphenol A diglycidyl ether homopolymer, 2,4,6-tris(dimethylaminomethyl)phenol)

### 14.3 Transport hazard class(es)

**ADN** : 8  
**ADR** : 8  
**RID** : 8  
**IMDG** : 8  
**IATA** : 8

### 14.4 Packing group

**ADN**  
Packing group : III  
Classification Code : C7

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version	Revision Date:	Date of last issue: 11.07.2022
1.1 DE / EN	12.07.2022	Date of first issue: 11.07.2022

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Hazard Identification Number : 80  
Labels : 8

### ADR

Packing group : III  
Classification Code : C7  
Hazard Identification Number : 80  
Labels : 8  
Tunnel restriction code : (E)

### RID

Packing group : III  
Classification Code : C7  
Hazard Identification Number : 80  
Labels : 8

### IMDG

Packing group : III  
Labels : 8  
EmS Code : F-A, S-B

### IATA (Cargo)

Packing instruction (cargo aircraft) : 856  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosive

### IATA (Passenger)

Packing instruction (passenger aircraft) : 852  
Packing instruction (LQ) : Y841  
Packing group : III  
Labels : Corrosive

## 14.5 Environmental hazards

### ADN

Environmentally hazardous : no

### ADR

Environmentally hazardous : no

### RID

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 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.

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version	Revision Date:	Date of last issue:
1.1	12.07.2022	11.07.2022
DE / EN		Date of first issue: 11.07.2022

### 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 3

benzyl alcohol (Number on list 3)  
2,4,6-  
tris(dimethylaminomethyl)phenol  
(Number on list 3)

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : Not applicable

REACH - List of substances subject to authorisation (Annex XIV) : 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

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

Water hazard class (Germany) : WGK 2 obviously hazardous to water  
Classification according to AwSV, Annex 1 (5.2)

#### Other regulations:

BG-Merkblatt M004, M051 (German regulatory requirements)

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.

**Yachtcare EP Fugenpaste schwarz B-Komponente**

Version

1.1

DE / EN

Revision Date:

12.07.2022

Date of last issue: 11.07.2022

Date of first issue: 11.07.2022

**SECTION 16: Other information****Full text of H-Statements**

H302	: Harmful if swallowed.
H312	: Harmful in contact with skin.
H314	: Causes severe skin burns and eye damage.
H317	: May cause an allergic skin reaction.
H318	: Causes serious eye damage.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H361d	: Suspected of damaging the unborn child.
H412	: Harmful to aquatic life with long lasting effects.

**Full text of other abbreviations**

Acute Tox.	: Acute toxicity
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Eye Dam.	: Serious eye damage
Eye Irrit.	: Eye irritation
Repr.	: Reproductive toxicity
Skin Corr.	: Skin corrosion
Skin Sens.	: Skin sensitization
DE TRGS 900	: Germany. TRGS 900 - Occupational exposure limit values.
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 - 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 Re-

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006

VOSSCHEMIE

## Yachtcare EP Fugenpaste schwarz B-Komponente

Version

1.1

DE / EN

Revision Date:

12.07.2022

Date of last issue: 11.07.2022

Date of first issue: 11.07.2022

striction 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:

Acute Tox. 4	H302
Skin Corr. 1B	H314
Eye Dam. 1	H318
Skin Sens. 1	H317
Aquatic Chronic 3	H412

#### Classification procedure:

Calculation method
Calculation method
Calculation method
Calculation method
Calculation method

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DE / EN