

Page 1 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 28.03.2023 / 0002  
Replacing version dated / version: 28.03.2022 / 0001  
Valid from: 28.03.2023  
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Ampacoll® Superfix

## Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

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

#### 1.1 Product identifier

**Ampacoll® Superfix**

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

**Relevant identified uses of the substance or mixture:**

Adhesive

**Uses advised against:**

No information available at present.

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

Ampack AG  
Seebleichstrasse 50  
CH-9401 Rorschach  
T: +41 71 858 38 00  
F: +41 71 858 38 37

Ampack Handels GmbH  
Vorarlberger Wirtschaftspark 2  
AT-6840 Götzis  
T: +43 5523 53433  
F: +43 5523 53426

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

#### 1.4 Emergency telephone number

**Emergency information services / official advisory body:**

GB

Tox Info Suisse, Freiestrasse 16, CH-8032 Zurich, Switzerland. Emergency phone: 145 (from abroad: +41 44 251 51 51)

IRL

National Poisons Information Centre, Beaumont Hospital, Dublin 9, Ireland, Tel.:  
+353 (0)1 809 2166 (Public Poisons Info Line, 8am-10pm, 7 days a week)  
+353 (0)1 809 2566 (Info for Healthcare Professionals ONLY, 24 h, 7 days a week)

**Telephone number of the company in case of emergencies:**

+43/ 5523/ 53433 (Mo - Fr) 08.00 - 11.30 /14.00 - 16.00)

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Classification according to Regulation (EC) 1272/2008 (CLP)**

Hazard class	Hazard category	Hazard statement
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STOT RE	2	H373-May cause damage to organs through prolonged or repeated exposure.
Eye Irrit.	2	H319-Causes serious eye irritation.
Skin Irrit.	2	H315-Causes skin irritation.
STOT SE	3	H336-May cause drowsiness or dizziness.
Repr.	2	H361d-Suspected of damaging the unborn child.
Aquatic Chronic	3	H412-Harmful to aquatic life with long lasting effects.

## 2.2 Label elements

### Labeling according to Regulation (EC) 1272/2008 (CLP)



Warning

H373-May cause damage to organs through prolonged or repeated exposure. H319-Causes serious eye irritation. H315-Causes skin irritation. H336-May cause drowsiness or dizziness. H361d-Suspected of damaging the unborn child. H412-Harmful to aquatic life with long lasting effects.

P201-Obtain special instructions before use. P260-Do not breathe dust or mist. P273-Avoid release to the environment. P280-Wear protective gloves / protective clothing / eye protection / face protection.  
P308+P313-IF exposed or concerned: Get medical advice / attention.  
P403+P233-Store in a well-ventilated place. Keep container tightly closed.

EUH208-Contains 2-(2H-benzotriazol-2-yl)-p-cresol. May produce an allergic reaction.

Toluene

## 2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).

The mixture does not contain any substance with endocrine disrupting properties (< 0,1 %).

## SECTION 3: Composition/information on ingredients

### 3.1 Substances

n.a.

### 3.2 Mixtures

Toluene	Substance for which an EU exposure limit value applies.
Registration number (REACH)	---
Index	601-021-00-3
EINECS, ELINCS, NLP, REACH-IT List-No.	203-625-9
CAS	108-88-3
content %	25-<50

Page 3 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
 Ampacoll® Superfix

<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Flam. Liq. 2, H225 Skin Irrit. 2, H315 Eye Irrit. 2, H319 Repr. 2, H361d STOT SE 3, H336 STOT RE 2, H373 Asp. Tox. 1, H304 Aquatic Chronic 3, H412
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<b>2-(2H-benzotriazol-2-yl)-p-cresol</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	---
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	219-470-5
<b>CAS</b>	2440-22-4
<b>content %</b>	<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Skin Sens. 1, H317 Aquatic Chronic 4, H413

<b>Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b>	
<b>Registration number (REACH)</b>	---
<b>Index</b>	---
<b>EINECS, ELINCS, NLP, REACH-IT List-No.</b>	258-207-9
<b>CAS</b>	52829-07-9
<b>content %</b>	<1
<b>Classification according to Regulation (EC) 1272/2008 (CLP), M-factors</b>	Eye Dam. 1, H318 Aquatic Acute 1, H400 (M=1) Aquatic Chronic 2, H411

For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.  
 The substances named in this section are given with their actual, appropriate classification!  
 For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

First-aiders should ensure they are protected!  
 Never pour anything into the mouth of an unconscious person!

#### Inhalation

Remove person from danger area.  
 Supply person with fresh air and consult doctor according to symptoms.  
 If the person is unconscious, place in a stable side position and consult a doctor.

#### Skin contact

Remove polluted, soaked clothing immediately, wash thoroughly with plenty of water and soap, in case of irritation of the skin (flare), consult a doctor.

#### Eye contact

Remove contact lenses.  
 Wash thoroughly for several minutes using copious water. Seek medical help if necessary.

#### Ingestion

Rinse the mouth thoroughly with water.  
 Do not induce vomiting. Consult doctor immediately.

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

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.  
 In certain cases, the symptoms of poisoning may only appear after an extended period / after several hours.  
 eyes, reddened  
 watering eyes  
 reddening of the skin  
 Dermatitis (skin inflammation)

Page 4 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 28.03.2023 / 0002  
Replacing version dated / version: 28.03.2022 / 0001  
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Ampacoll® Superfix

Allergic reaction  
headaches  
dizziness  
Coordination disorders  
mental confusion  
Irritation of the stomach  
diarrhoea

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

Symptomatic treatment.

### **SECTION 5: Firefighting measures**

#### **5.1 Extinguishing media**

##### **Suitable extinguishing media**

Water jet spray/foam/CO2/dry extinguisher

##### **Unsuitable extinguishing media**

High volume water jet

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

In case of fire the following can develop:

Oxides of carbon  
Oxides of nitrogen  
Toxic gases

#### **5.3 Advice for firefighters**

For personal protective equipment see Section 8.

In case of fire and/or explosion do not breathe fumes.

Protective respirator with independent air supply.

According to size of fire

Full protection, if necessary.

Dispose of contaminated extinction water according to official regulations.

### **SECTION 6: Accidental release measures**

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

##### **6.1.1 For non-emergency personnel**

In case of spillage or accidental release, wear personal protective equipment as specified in section 8 to prevent contamination.

Ensure sufficient ventilation, remove sources of ignition.

Avoid dust formation with solid or powder products.

Leave the danger zone if possible, use existing emergency plans if necessary.

Avoid contact with eyes or skin.

If applicable, caution - risk of slipping.

##### **6.1.2 For emergency responders**

See section 8 for suitable protective equipment and material specifications.

#### **6.2 Environmental precautions**

If leakage occurs, dam up.

Resolve leaks if this possible without risk.

Prevent surface and ground-water infiltration, as well as ground penetration.

Prevent from entering drainage system.

If accidental entry into drainage system occurs, inform responsible authorities.

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

Soak up with absorbent material (e.g. universal binding agent, sand, diatomaceous earth, sawdust) and dispose of according to Section 13.

Fill the absorbed material into lockable containers.

#### **6.4 Reference to other sections**

For personal protective equipment see Section 8 and for disposal instructions see Section 13.

### **SECTION 7: Handling and storage**

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II

Revision date / version: 28.03.2023 / 0002

Replacing version dated / version: 28.03.2022 / 0001

Valid from: 28.03.2023

PDF print date: 29.03.2023

Ampacoll® Superfix

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.

## 7.1 Precautions for safe handling

### 7.1.1 General recommendations

Ensure good ventilation.

Avoid inhalation of the vapours.

Avoid contact with eyes or skin.

Pregnant women should avoid contact with this product.

Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

Observe directions on label and instructions for use.

Use working methods according to operating instructions.

### 7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

## 7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.

Store product closed and only in original packing.

Not to be stored in gangways or stair wells.

Protect from direct sunlight and warming.

Store in a well ventilated place.

Store in a dry place.

Store cool.

## 7.3 Specific end use(s)

No information available at present.

Observe the instructions for good working practice and the recommendations for risk assessment.

Consult hazardous substance information systems, e.g. from the professional associations, the chemical industry or different industries,

depending on the application (building materials, wood, chemistry, laboratory, leather, metal).

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

Chemical Name	Toluene
WEL-TWA: 191 mg/m <sup>3</sup> (50 ppm) (WEL), 192 mg/m <sup>3</sup> (50 ppm) (EU)	WEL-STEL: 384 mg/m <sup>3</sup> (100 ppm) (WEL, EU) ---
Monitoring procedures:	<ul style="list-style-type: none"> <li>- Draeger - Toluene 100/a (81 01 731)</li> <li>- Draeger - Toluene 5/b (81 01 661)</li> <li>- Draeger - Toluene 50/a (81 01 701)</li> <li>- Compur - KITA-124 SA (550 226)</li> <li>- Compur - KITA-124 SB (551 398)</li> <li>- Compur - KITA-124 SH (509 834)</li> <li>- DFG Meth. Nr. 1 (D) (Loesungsmittelgemische), DFG (E) (Solvent mixtures 1) - 2014, 2002</li> <li>- INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16</li> <li>- card 17-1 (2004)</li> <li>- NIOSH 1501 (HYDROCARBONS, AROMATIC) - 2003</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016</li> <li>- NIOSH 4000 (TOLUENE (diffusive sampler)) - 1994</li> <li>- OSHA 1021 (Instantaneous Whole Air Sampling) - 2017</li> <li>- OSHA 111 (TOLUENE) - 1998</li> </ul>

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Page 6 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
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BMGV: ---	Other information: Sk (WEL, EU)
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<b>Chemical Name</b>	Toluene		
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OELV-8h: 50 ppm (192 mg/m3) (OELV, EU)	OELV-15min: 100 ppm (384 mg/m3) (OELV, EU)	---
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Monitoring procedures:	<ul style="list-style-type: none"> <li>- Draeger - Toluene 100/a (81 01 731)</li> <li>- Draeger - Toluene 5/b (81 01 661)</li> <li>- Draeger - Toluene 50/a (81 01 701)</li> <li>- Compur - KITA-124 SA (550 226)</li> <li>- Compur - KITA-124 SB (551 398)</li> <li>- Compur - KITA-124 SH (509 834)</li> <li>- DFG Meth. Nr. 1 (D) (Lösungsmittelgemische), DFG (E) (Solvent mixtures 1) - 2014, 2002</li> <li>- INSHT MTA/MA-030/A92 (Determination of aromatic hydrocarbons (benzene, toluene, ethylbenzene, p-xylene, 1,2,4-trimethylbenzene) in air - Charcoal tube method / Gas chromatography) - 1992 - EU project BC/CEN/ENTR/000/2002-16 card 17-1 (2004)</li> <li>- NIOSH 1501 (HYDROCARBONS, AROMATIC) - 2003</li> <li>- NIOSH 2549 (VOLATILE ORGANIC COMPOUNDS (SCREENING)) - 1996</li> <li>- NIOSH 3800 (ORGANIC AND INORGANIC GASES BY EXTRACTIVE FTIR SPECTROMETRY) - 2016</li> <li>- NIOSH 4000 (TOLUENE (diffusive sampler)) - 1994</li> <li>- OSHA 1021 (Instantaneous Whole Air Sampling) - 2017</li> <li>- OSHA 111 (TOLUENE) - 1998</li> </ul>
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BLV: 0,3 mg/g creatinine (o-Cresol in urine (with hydrolysis), end of shift), 0,03 mg/l (Toluene in urine, end of shift), 0,02 mg/l (Toluene in blood, prior to last shift of workweek)	Other information: Sk (IOELV, EU)
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<b>Chemical Name</b>	Silicon dioxide - amorphous		
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WEL-TWA: 6 mg/m3 (total inh. dust), 2,4 mg/m3 (resp. dust)	WEL-STEL: ---	---
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Monitoring procedures: ---	Other information: ---
----------------------------	------------------------

BMGV: ---	Other information: ---
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<b>Chemical Name</b>	Silicon dioxide - amorphous		
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OELV-8h: 2,4 mg/m3 (respirable dust), 6 mg/m3 (total inhalable dust) (Silica, amorphous)	OELV-15min: ---	---
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Monitoring procedures: ---	Other information: ---
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BLV: ---	Other information: ---
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Toluene						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,68	mg/l	
	Environment - marine		PNEC	0,68	mg/l	
	Environment - sporadic (intermittent) release		PNEC	0,68	mg/l	
	Environment - sewage treatment plant		PNEC	13,61	mg/l	
	Environment - sediment, freshwater		PNEC	16,39	mg/kg dry weight	
	Environment - sediment, marine		PNEC	16,39	mg/kg dry weight	
	Environment - soil		PNEC	2,89	mg/kg dry weight	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	56,5	mg/m3	
Consumer	Human - inhalation	Long term, local effects	DNEL	56,5	mg/m3	

Page 7 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
 Ampacoll® Superfix

Consumer	Human - inhalation	Short term, systemic effects	DNEL	226	mg/m <sup>3</sup>	
Consumer	Human - inhalation	Short term, local effects	DNEL	226	mg/m <sup>3</sup>	
Consumer	Human - dermal	Long term, systemic effects	DNEL	226	mg/kg body weight/day	
Consumer	Human - oral	Long term, systemic effects	DNEL	8,13	mg/kg body weight/day	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	192	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	192	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	384	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Short term, local effects	DNEL	384	mg/m <sup>3</sup>	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	384	mg/kg body weight/day	

#### 2-(2H-benzotriazol-2-yl)-p-cresol

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - oral	Long term, systemic effects	DNEL	1,2	mg/kg bw/d	
Consumer	Human - dermal	Long term, systemic effects	DNEL	1,2	mg/kg bw/d	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2,5	mg/kg bw/d	
Workers / employees	Human - inhalation	Short term	DNEL	1	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	1	mg/m <sup>3</sup>	

#### Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,018	mg/l	
	Environment - marine		PNEC	0,0018	mg/l	
	Environment - sediment, freshwater		PNEC	29	mg/kg	
	Environment - sediment, marine		PNEC	2,9	mg/kg	
	Environment - soil		PNEC	5,9	mg/kg	
	Environment - water, sporadic (intermittent) release		PNEC	0,007	mg/l	
	Environment - sewage treatment plant		PNEC	1	mg/l	
Consumer	Human - oral	Long term, systemic effects	DNEL	0,4	mg/kg bw/d	
Consumer	Human - inhalation	Long term, systemic effects	DNEL	0,69	mg/m <sup>3</sup>	
Consumer	Human - dermal	Long term, systemic effects	DNEL	0,8	mg/kg bw/d	

Page 8 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
 Ampacoll® Superfix

Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	5,6	mg/m <sup>3</sup>	
Workers / employees	Human - inhalation	Short term, systemic effects	DNEL	5,6	mg/m <sup>3</sup>	
Workers / employees	Human - dermal	Long term, systemic effects	DNEL	2	mg/kg body weight/day	
Workers / employees	Human - dermal	Short term, systemic effects	DNEL	2	mg/kg	

Silicon dioxide - amorphous						
Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Workers / employees	Human - inhalation	Long term, systemic effects	DNEL	4	mg/m <sup>3</sup>	

WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.  
 \*\* = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

OELV-8h = Occupational Exposure Limit Value (8-hour reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
 (8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). |  
 OELV-15min = Occupational Exposure Limit Value (15-minute reference period). (IFV) = Inhalable Fraction and Vapour. (I) = Inhalable Fraction. (R) = Respirable Fraction.  
 (8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). |  
 BLV = Biological limit value |  
 Other information: Carc1A, Carc1B = carcinogenic substance, Cat. 1A or 1B. Muta1A, Muta1B = mutagenic substance, Cat. 1A or 1B. Repr1A, Repr1B = Substances known to be toxic for reproduction, Cat. 1A or 1B. Sk = can be absorbed through skin. Asphx = asphyxiant. Sen = Respiratory sensitizer. BOELV = Binding Occupational Exposure Limit Values. IOELV = Indicative Occupational Exposure Limit Values.  
 (13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

## 8.2 Exposure controls

### 8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.  
 If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.  
 Applies only if maximum permissible exposure values are listed here.  
 Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.  
 These are specified by e.g. EN 14042.



Page 9 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 28.03.2023 / 0002  
Replacing version dated / version: 28.03.2022 / 0001  
Valid from: 28.03.2023  
PDF print date: 29.03.2023  
Ampacoll® Superfix

EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

### 8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.

Wash hands before breaks and at end of work.

Keep away from food, drink and animal feedingstuffs.

Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:

Tight fitting protective goggles with side protection (EN 166).

Skin protection - Hand protection:

Chemical resistant protective gloves (EN ISO 374).

If applicable

Protective Viton® / fluoroelastomer gloves (EN ISO 374).

Minimum layer thickness in mm:

0,4

Permeation time (penetration time) in minutes:

480

The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.

The recommended maximum wearing time is 50% of breakthrough time.

Protective hand cream recommended.

Skin protection - Other:

Protective working garments (e.g. safety shoes EN ISO 20345, long-sleeved protective working garments).

Respiratory protection:

If OES or MEL is exceeded.

Filter A P2 (EN 14387), code colour brown, white

Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:

Not applicable

Additional information on hand protection - No tests have been performed.

In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.

Selection of materials derived from glove manufacturer's indications.

Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.

Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.

In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.

The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

### 8.2.3 Environmental exposure controls

No information available at present.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state:	Paste, solid.
Colour:	Colourless
Odour:	Characteristic
Melting point/freezing point:	>20 °C
Boiling point or initial boiling point and boiling range:	110 °C
Flammability:	There is no information available on this parameter.
Lower explosion limit:	Does not apply to solids.
Upper explosion limit:	Does not apply to solids.
Flash point:	4 °C

Page 10 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
 Ampacoll® Superfix

Auto-ignition temperature:	Does not apply to solids.
Decomposition temperature:	There is no information available on this parameter.
pH:	Mixture is non-soluble (in water).
Kinematic viscosity:	>20,5 mm <sup>2</sup> /s (40°C, There is no information available on this parameter. )
Solubility:	Insoluble
Partition coefficient n-octanol/water (log value):	Does not apply to mixtures.
Vapour pressure:	There is no information available on this parameter.
Density and/or relative density:	0,971
Relative vapour density:	Does not apply to solids.
Particle characteristics:	There is no information available on this parameter.

## 9.2 Other information

No information available at present.

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

The product has not been tested.

### 10.2 Chemical stability

Stable with proper storage and handling.

### 10.3 Possibility of hazardous reactions

No dangerous reactions are known.

### 10.4 Conditions to avoid

None known

### 10.5 Incompatible materials

Avoid contact with strong alkalis.

Avoid contact with strong oxidizing agents.

Avoid contact with strong acids.

### 10.6 Hazardous decomposition products

No decomposition when used as directed.

## SECTION 11: Toxicological information

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

Possibly more information on health effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:						n.d.a.
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Page 11 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
 Ampacoll® Superfix

Toluene						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	5580	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit		
Acute toxicity, by inhalation:	LC50	25,7-30	mg/l/4h	Rat	OECD 403 (Acute Inhalation Toxicity)	Vapours
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Skin Irrit. 2
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Germ cell mutagenicity:				Salmonella typhimurium	Regulation (EC) 440/2008 B.13/B.14 (REVERSE MUTATION TEST USING BACTERIA)	Negative
Reproductive toxicity (Developmental toxicity):				Human being		Repr. 2, May cause harm to the unborn child.
Specific target organ toxicity - single exposure (STOT-SE):						STOT SE 3, H336, May cause drowsiness or dizziness.
Aspiration hazard:						Yes
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:						STOT RE 2, Target organ(s): liver, kidneys
Symptoms:						respiratory distress, drowsiness, unconsciousness, headaches, cramps, circulatory collapse, intoxication, drowsiness, mucous membrane irritation, dizziness, sweating, nausea and vomiting., disturbed heart rhythm, fatigue, nausea

2-(2H-benzotriazol-2-yl)-p-cresol						
Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>2000-10000	mg/kg	Rat		

Page 12 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
 Ampacoll® Superfix

Acute toxicity, by dermal route:	LD50	>1000	mg/kg	Rat		
Acute toxicity, by inhalation:	LC50	>600	mg/m <sup>3</sup> /4 h			
Skin corrosion/irritation:				Rabbit		Not irritant
Serious eye damage/irritation:				Rabbit		Not irritant
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Sensitising (skin contact)

#### Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	3700	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	
Acute toxicity, by dermal route:	LD50	>3170	mg/kg	Rat	OECD 402 (Acute Dermal Toxicity)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizing
Germ cell mutagenicity:					(Ames-Test)	Negative
Aspiration hazard:						No
Symptoms:						coughing

#### Silicon dioxide - amorphous

Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Acute toxicity, by oral route:	LD50	>5000	mg/kg	Rat	OECD 401 (Acute Oral Toxicity)	
Acute toxicity, by dermal route:	LD50	>5000	mg/kg	Rabbit	IUCLID Chem. Data Sheet (ESIS)	
Skin corrosion/irritation:				Rabbit	OECD 404 (Acute Dermal Irritation/Corrosion)	Not irritant
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Not irritant
Respiratory or skin sensitisation:				Guinea pig	IUCLID Chem. Data Sheet (ESIS)	Not sensitizing
Germ cell mutagenicity:				Salmonella typhimurium	(Ames-Test)	Negative
Carcinogenicity:						Negative
Reproductive toxicity:	NOAEL	>497	mg/kg bw/d			No indications of such an effect.
Aspiration hazard:						No
Specific target organ toxicity - repeated exposure (STOT-RE), inhalat.:	NOAEL	0,035	mg/l			Negative

### 11.2. Information on other hazards

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Toxicity / effect	Endpoint	Value	Unit	Organism	Test method	Notes
Endocrine disrupting properties:						Does not apply to mixtures.

Page 13 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
 Ampacoll® Superfix

Other information:							No other relevant information available on adverse effects on health.
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## SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

Ampacoll® Superfix							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							n.d.a.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Endocrine disrupting properties:							Does not apply to mixtures.
12.7. Other adverse effects:							No information available on other adverse effects on the environment.

Toluene							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	NOEC/NOEL		1,39	mg/l			
12.1. Toxicity to fish:	LC50	96h	5,5	mg/l			
12.1. Toxicity to daphnia:	NOEC/NOEL	7d	0,74	mg/l	Ceriodaphnia spec.		
12.1. Toxicity to daphnia:	LC50	48h	3,78	mg/l	Ceriodaphnia spec.	U.S. EPA ECOTOX Database	
12.1. Toxicity to algae:	EC50	3h	134	mg/l	Chlorella vulgaris		
12.1. Toxicity to algae:	NOEC/NOEL	72h	10	mg/l	Skeletonema costatum		
12.2. Persistence and degradability:		20d	86	%			Readily biodegradable, Photochemical decomposition in the atmosphere.
12.3. Bioaccumulative potential:	BCF		90				
12.3. Bioaccumulative potential:	Log Kow		2,73				A notable biological accumulation potential is not to be expected (LogPow 1-3).
12.4. Mobility in soil:							Yes

Page 14 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
 Ampacoll® Superfix

12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	24h	84	mg/l			
Other information:	COD		700	mg/g			

<b>2-(2H-benzotriazol-2-yl)-p-cresol</b>							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>100	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.2. Persistence and degradability:							Not readily biodegradable
12.3. Bioaccumulative potential:	Log Pow		4,2				
Toxicity to bacteria:	IC50	3h	>100	mg/l		OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

<b>Bis(2,2,6,6-tetramethyl-4-piperidyl) sebacate</b>							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	13	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	24h	17	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	0,23	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	0,705	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	24	%	activated sludge	84/449/EEC	Not readily biodegradable
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Toxicity to bacteria:	EC50	3h	>100	mg/l	activated sludge	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

Page 15 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
 Ampacoll® Superfix

Silicon dioxide - amorphous							
Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	>10000	mg/l	Brachydanio rerio	OECD 203 (Fish, Acute Toxicity Test)	
12.1. Toxicity to daphnia:	EC50	24h	>1000	mg/l	Daphnia magna	OECD 202 (Daphnia sp. Acute Immobilisation Test)	
12.1. Toxicity to daphnia:	NOEC/NOEL	30d	34223	mg/l	Daphnia magna		
12.1. Toxicity to algae:	EC50	72h	>10000	mg/l	Desmodesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.1. Toxicity to algae:	IC50	72h	440	mg/l	Pseudokirchnerie lla subcapitata	IUCLID Chem. Data Sheet (ESIS)	
12.1. Toxicity to algae:	NOEC/NOEL	72h	60	mg/l	Pseudokirchnerie lla subcapitata	IUCLID Chem. Data Sheet (ESIS)	
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance

## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

#### For the substance / mixture / residual amounts

EC disposal code no.:

The waste codes are recommendations based on the scheduled use of this product. Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)

08 04 09 waste adhesives and sealants containing organic solvents or other hazardous substances

Recommendation:

Sewage disposal shall be discouraged.

Pay attention to local and national official regulations.

E.g. suitable incineration plant.

E.g. dispose at suitable refuse site.

#### For contaminated packing material

Pay attention to local and national official regulations.

Empty container completely.

Untampered packaging can be recycled.

Dispose of packaging that cannot be cleaned in the same manner as the substance.

## SECTION 14: Transport information

### General statements

#### Transport by road/by rail (ADR/RID)

14.1. UN number or ID number:	Not applicable
14.2. UN proper shipping name:	Not applicable
14.3. Transport hazard class(es):	Not applicable
14.4. Packing group:	Not applicable

Page 16 of 19  
 Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
 Revision date / version: 28.03.2023 / 0002  
 Replacing version dated / version: 28.03.2022 / 0001  
 Valid from: 28.03.2023  
 PDF print date: 29.03.2023  
 Ampacoll® Superfix

14.5. Environmental hazards: Not applicable  
 Tunnel restriction code: Not applicable  
 Classification code: Not applicable  
 LQ: Not applicable  
 Transport category: Not applicable

**Transport by sea (IMDG-code)**

14.1. UN number or ID number: Not applicable  
 14.2. UN proper shipping name: Not applicable  
 14.3. Transport hazard class(es): Not applicable  
 14.4. Packing group: Not applicable  
 14.5. Environmental hazards: Not applicable  
 Marine Pollutant: Not applicable  
 EmS: Not applicable

**Transport by air (IATA)**

14.1. UN number or ID number: Not applicable  
 14.2. UN proper shipping name: Not applicable  
 14.3. Transport hazard class(es): Not applicable  
 14.4. Packing group: Not applicable  
 14.5. Environmental hazards: Not applicable

**14.6. Special precautions for user**

Unless specified otherwise, general measures for safe transport must be followed.

**14.7. Maritime transport in bulk according to IMO instruments**

Non-dangerous material according to Transport Regulations.

**SECTION 15: Regulatory information**

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

Observe restrictions:  
 Comply with national regulations/laws governing the protection of young people at work (national implementation of the Directive 94/33/EC)!

Regulation (EC) No 1907/2006, Annex XVII

Toluene

Comply with national regulations/laws governing maternity protection (national implementation of the Directive 92/85/EEC)!

Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 392,95 g/l

National requirements/regulations on safety and health protection must be applied when using work equipment.

**15.2 Chemical safety assessment**

A chemical safety assessment is not provided for mixtures.

**SECTION 16: Other information**

Revised sections: 7, 8, 11, 12, 15

These details refer to the product as it is delivered.

Employee instruction/training in handling hazardous materials is required.

**Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):**

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
STOT RE 2, H373	Classification according to calculation procedure.



Eye Irrit. 2, H319	Classification according to calculation procedure.
Skin Irrit. 2, H315	Classification according to calculation procedure.
STOT SE 3, H336	Classification according to calculation procedure.
Repr. 2, H361d	Classification according to calculation procedure.
Aquatic Chronic 3, H412	Classification according to calculation procedure.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).

H361d Suspected of damaging the unborn child.

H225 Highly flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H336 May cause drowsiness or dizziness.

H373 May cause damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

H413 May cause long lasting harmful effects to aquatic life.

STOT RE — Specific target organ toxicity - repeated exposure

Eye Irrit. — Eye irritation

Skin Irrit. — Skin irritation

STOT SE — Specific target organ toxicity - single exposure - narcotic effects

Repr. — Reproductive toxicity

Aquatic Chronic — Hazardous to the aquatic environment - chronic

Flam. Liq. — Flammable liquid

Asp. Tox. — Aspiration hazard

Skin Sens. — Skin sensitization

Eye Dam. — Serious eye damage

Aquatic Acute — Hazardous to the aquatic environment - acute

### Key literature references and sources for data:

Regulation (EC) No 1907/2006 (REACH) and Regulation (EC) No 1272/2008 (CLP) as amended.

Guidelines for the preparation of safety data sheets as amended (ECHA).

Guidelines on labelling and packaging according to the Regulation (EG) Nr. 1272/2008 (CLP) as amended (ECHA).

Safety data sheets for the constituent substances.

ECHA Homepage - Information about chemicals.

GESTIS Substance Database (Germany).

German Environment Agency "Rigoletto" information site on substances that are hazardous to water (Germany).

EU Occupation Exposure Limits Directives 91/322/EEC, 2000/39/EC, 2006/15/EC, 2009/161/EU, (EU) 2017/164, (EU) 2019/1831, each as amended.

National Lists of Occupational Exposure Limits for each country as amended.

Regulations on the transport of hazardous goods by road, rail, sea and air (ADR, RID, IMDG, IATA) as amended.

### Any abbreviations and acronyms used in this document:

acc., acc. to according, according to

ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)

AOX Adsorbable organic halogen compounds

approx. approximately

Art., Art. no. Article number

ASTM ASTM International (American Society for Testing and Materials)

Page 18 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 28.03.2023 / 0002  
Replacing version dated / version: 28.03.2022 / 0001  
Valid from: 28.03.2023  
PDF print date: 29.03.2023  
Ampacoll® Superfix

ATE Acute Toxicity Estimate  
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)  
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)  
BCF Bioconcentration factor  
BSEF The International Bromine Council  
bw body weight  
CAS Chemical Abstracts Service  
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)  
CMR carcinogenic, mutagenic, reproductive toxic  
DMEL Derived Minimum Effect Level  
DNEL Derived No Effect Level  
DOC Dissolved organic carbon  
dw dry weight  
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance  
EbCx, EyCx, EbLx (x = 10, 50) Effect Concentration/Level of x % on reduction of the biomass (algae, plants)  
EC European Community  
ECHA European Chemicals Agency  
ECx, ELx (x = 0, 3, 5, 10, 20, 50, 80, 100) Effect Concentration/Level for x % effect  
EEC European Economic Community  
EINECS European Inventory of Existing Commercial Chemical Substances  
ELINCS European List of Notified Chemical Substances  
EN European Norms  
EPA United States Environmental Protection Agency (United States of America)  
ErCx, EµCx, ErLx (x = 10, 50) Effect Concentration/Level of x % on inhibition of the growth rate (algae, plants)  
etc. et cetera  
EU European Union  
EVAL Ethylene-vinyl alcohol copolymer  
Fax. Fax number  
gen. general  
GHS Globally Harmonized System of Classification and Labelling of Chemicals  
GWP Global warming potential  
Koc Adsorption coefficient of organic carbon in the soil  
Kow octanol-water partition coefficient  
IARC International Agency for Research on Cancer  
IATA International Air Transport Association  
IBC (Code) International Bulk Chemical (Code)  
IMDG-code International Maritime Code for Dangerous Goods  
incl. including, inclusive  
IUCLID International Uniform Chemical Information Database  
IUPAC International Union for Pure Applied Chemistry  
LC50 Lethal Concentration to 50 % of a test population  
LD50 Lethal Dose to 50% of a test population (Median Lethal Dose)  
Log Koc Logarithm of adsorption coefficient of organic carbon in the soil  
Log Kow, Log Pow Logarithm of octanol-water partition coefficient  
LQ Limited Quantities  
MARPOL International Convention for the Prevention of Marine Pollution from Ships  
n.a. not applicable  
n.av. not available  
n.c. not checked  
n.d.a. no data available  
NIOSH National Institute for Occupational Safety and Health (USA)  
NLP No-longer-Polymer  
NOEC, NOEL No Observed Effect Concentration/Level  
OECD Organisation for Economic Co-operation and Development  
org. organic  
OSHA Occupational Safety and Health Administration (USA)  
PBT persistent, bioaccumulative and toxic  
PE Polyethylene  
PNEC Predicted No Effect Concentration

Page 19 of 19  
Safety data sheet according to Regulation (EC) No 1907/2006, Annex II  
Revision date / version: 28.03.2023 / 0002  
Replacing version dated / version: 28.03.2022 / 0001  
Valid from: 28.03.2023  
PDF print date: 29.03.2023  
Ampacoll® Superfix

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ppm parts per million  
PVC Polyvinylchloride  
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)  
REACH-IT List-No. 9xx-xxx-x No. is automatically assigned, e.g. to pre-registrations without a CAS No. or other numerical identifier. List Numbers do not have any legal significance, rather they are purely technical identifiers for processing a submission via REACH-IT.  
RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)  
SVHC Substances of Very High Concern  
Tel. Telephone  
TOC Total organic carbon  
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods  
VOC Volatile organic compounds  
vPvB very persistent and very bioaccumulative  
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.  
No responsibility.

These statements were made by:

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