

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



## Capalac 2K-EP-Haftgrund Masse Weiß

Version	Revision Date:	Print Date	Date of last issue: -
1.0	30.03.2022	06.04.2022	Date of first issue: 30.03.2022

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

#### 1.1 Product identifier

Trade name : Capalac 2K-EP-Haftgrund Masse Weiß

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

Use of the Sub-stance/Mixture : epoxide-resin-based coating material, solvent-containing

Recommended restrictions on use : within adequate application - none

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

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

Telephone : +496154710  
Telefax : +4961547170222  
E-mail address Responsible/issuing person : msds@dr-rmi.com

#### 1.4 Emergency telephone

Emergency telephone 1 : +49613284463 GBK GmbH

### 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.
Skin irritation, Category 2	H315: Causes skin irritation.
Eye irritation, Category 2	H319: Causes serious eye irritation.
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.
Long-term (chronic) aquatic hazard, Category 2	H411: Toxic to aquatic life with long lasting effects.

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### 2.2 Label elements

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

Hazard pictograms :



Signal Word : Warning

Hazard Statements : H226 Flammable liquid and vapor.  
H315 Causes skin irritation.  
H317 May cause an allergic skin reaction.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.  
H411 Toxic 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:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P262 Do not get in eyes, on skin, or on clothing.  
P271 Use only outdoors or in a well-ventilated area.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ eye protection.

#### Storage:

P405 Store locked up.

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

Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]  
n-butyl acetate  
2-methoxy-1-methylethyl acetate  
maleic anhydride

#### Additional Labeling

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

### 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.

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

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

### SECTION 3: Composition/information on ingredients

#### 3.2 Mixtures

##### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
Phenol, 4,4'-(1-methylethylidene)bis-, polymer with 2,2'-[(1-methylethylidene)bis(4,1-phenyleneoxymethylene)]bis[oxirane]	25036-25-3	Skin Irrit. 2; H315 Eye Irrit. 2; H319 Skin Sens. 1; H317	>= 10 - < 20
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter ≤ 10 µm]	13463-67-7 236-675-5 022-006-00-2 01-2119489379-17	Carc. 2; H351	>= 10 - < 20
trizinc bis(orthophosphate)	7779-90-0 231-944-3 030-011-00-6 01-2119485044-40	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	>= 2,5 - < 10
n-butyl acetate	123-86-4 204-658-1 607-025-00-1 01-2119485493-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) EUH066	>= 1 - < 10
2-methoxy-1-methylethyl acetate	108-65-6 203-603-9 607-195-00-7 01-2119475791-29	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system)	>= 1 - < 10
Solvent naphtha (petroleum), light arom.; Low boiling point naphtha - unspecified	64742-95-6 265-199-0 649-356-00-4 01-2119455851-35, 01-2119486773-24	STOT SE 3; H336 STOT SE 3; H335 Aquatic Chronic 2; H411 Asp. Tox. 1; H304 Flam. Liq. 3; H226 EUH066	>= 2,5 - < 10

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2-butoxyethanol	111-76-2 203-905-0 603-014-00-0 01-2119475108-36	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Irrit. 2; H319  Acute toxicity estimate  Acute oral toxicity: 1.200 mg/kg Acute inhalation toxicity (dust/mist): 2,2 mg/l	$\geq 1 - < 10$
zinc oxide	1314-13-2 215-222-5 030-013-00-7 01-2119463881-32, 01-2120089607-43, 01-2120767291-53	Aquatic Acute 1; H400 Aquatic Chronic 1; H410	$\geq 0,25 - < 1$
maleic anhydride	108-31-6 203-571-6 607-096-00-9 01-2119472428-31, 01-2120759691-45	Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318 Resp. Sens. 1; H334 Skin Sens. 1A; H317 STOT RE 1; H372 (Respiratory system, Inhalation) EUH071  specific concentration limit Skin Sens. 1A; H317 $\geq 0,001 \%$	$\geq 0,001 - < 0,1$

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first-aid measures

General advice : Never give anything by mouth to an unconscious person.  
If you feel unwell, seek medical advice (show the label where possible).  
Move out of dangerous area.  
First aider needs to protect himself.

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- If inhaled : Move to fresh air.
- If symptoms persist, call a physician.
- If unconscious, place in recovery position and seek medical advice.
- If breathing is irregular or stopped, administer artificial respiration.
- Call a physician.
- In case of skin contact : Do NOT use solvents or thinners.  
In case of contact, immediately flush skin with soap and plenty of water.  
Take off all contaminated clothing immediately.
- In case of eye contact : IF 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 or doctor/ physician.
- If swallowed : Call a physician.  
Clean mouth with water and drink afterwards plenty of water.  
If swallowed, DO NOT induce vomiting.

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

- Risks : Causes skin irritation.  
May cause an allergic skin reaction.  
Causes serious eye irritation.  
May cause drowsiness or dizziness.

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

- Treatment : No information available.

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## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.  
Foam  
Carbon dioxide (CO<sub>2</sub>)
- Unsuitable extinguishing media : None known.

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

Specific hazards during fire fighting : Cool closed containers exposed to fire with water spray. Hazardous decomposition products formed under fire conditions.

### 5.3 Advice for firefighters

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

Further information : Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations. Standard procedure for chemical fires. In the event of fire and/or explosion do not breathe fumes.

## SECTION 6: Accidental release measures

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

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

### 6.2 Environmental precautions

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

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

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

### 6.4 Reference to other sections

For further information see Section 7 of the safety data sheet.

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

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : For personal protection see section 8. Avoid exceeding the given occupational exposure limits (see section 8).

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Provide sufficient air exchange and/or exhaust in work rooms.

Please follow the technical information.

Advice on protection against fire and explosion : The product is flammable but not readily ignited.

Hygiene measures : Avoid contact with the skin and the eyes. Wash hands before eating, drinking, or smoking. Do not eat, drink or smoke when using this product.

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

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

Storage class (TRGS 510) : 3, Flammable liquids

### 7.3 Specific end use(s)

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

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	13463-67-7	AGW (Inhalable fraction)	10 mg/m <sup>3</sup> (Titanium dioxide)	DE TRGS 900
		Peak-limit category: 2;(II)		
		AGW (Alveolate fraction)	1,25 mg/m <sup>3</sup> (Titanium dioxide)	DE TRGS 900
		Peak-limit category: 2;(II)		
n-butyl acetate	123-86-4	AGW	62 ppm 300 mg/m <sup>3</sup>	DE TRGS 900
		Peak-limit category: 2;(I)		
		Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Commission for dangerous substances		
2-methoxy-1-	108-65-6	STEL	100 ppm	2000/39/EC

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methylethyl acetate			550 mg/m <sup>3</sup>	
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			
		TWA	50 ppm 275 mg/m <sup>3</sup>	2000/39/EC
	Further information: Indicative, Identifies the possibility of significant uptake through the skin			
		AGW	50 ppm 270 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 1;(I)			
	Further information: When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, European Union (The EU has established a limit value: deviations in value and peak limit are possible), Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			
2-butoxyethanol	111-76-2	TWA	20 ppm 98 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	50 ppm 246 mg/m <sup>3</sup>	2000/39/EC
	Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		AGW	10 ppm 49 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 2;(I)			
	Further information: Skin absorption, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child			
maleic anhydride	108-31-6	AGW (Vapour and aerosols)	0,02 ppm 0,081 mg/m <sup>3</sup>	DE TRGS 900
	Peak-limit category: 1; =2.5=(I)			
	Further information: Substance sensitizing through the skin and respiratory system, When there is compliance with the OEL and biological tolerance values, there is no risk of harming the unborn child, Sum of vapor and aerosols., Senate commission for the review of compounds at the work place dangerous for the health (MAK-commission).			

### Biological occupational exposure limits

Substance name	CAS-No.	Control parameters	Sampling time	Basis
2-butoxyethanol	111-76-2	butoxy acetic acid: 150 mg/g Creatinine (Urine)	In case of long-term exposure: after more than one shift, Immediately after exposure or after working hours	TRGS 903
		butoxy acetic acid: 100 mg/l	In case of long-term exposure:	TRGS 903



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		(Urine)	after more than one shift	
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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
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	Consumers	Ingestion	Long-term systemic effects	700,00 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	10,00 mg/m <sup>3</sup>
trizinc bis(orthophosphate)	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,50 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	5,00 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
	n-butyl acetate	Consumers	Inhalation	Long-term systemic effects
	Consumers	Skin contact	Long-term systemic effects	3,40 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	3,40 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	859,70 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	102,34 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	102,34 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	859,70 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	960,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	960,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	960,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	960,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	48,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	480,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	480,00 mg/m <sup>3</sup>

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	Workers	Inhalation	Long-term local effects	480,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	480,00 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	7,00 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	859,70 mg/m <sup>3</sup>
	Consumers	Inhalation	Acute local effects	859,70 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	102,34 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term local effects	102,34 mg/m <sup>3</sup>
2-methoxy-1-methylethyl acetate	Consumers	Ingestion	Long-term systemic effects	36,00 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	33,00 mg/m <sup>3</sup>
	Consumers	Inhalation	Long-term systemic effects	33,00 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	320,00 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	54,80 mg/kg bw/day
	Consumers	Ingestion	Long-term systemic effects	1,67 mg/kg bw/day
	Workers	Inhalation	Acute local effects	550,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	275,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	275,00 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	796,00 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	153,50 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33,00 mg/m <sup>3</sup>
2-butoxyethanol	Consumers	Inhalation	Long-term systemic effects	59,00 mg/m <sup>3</sup>
	Consumers	Ingestion	Acute systemic effects	26,70 mg/kg bw/day
	Consumers	Skin contact	Long-term systemic effects	75,00 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	89,00 mg/kg bw/day
	Consumers	Inhalation	Acute local effects	147,00 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	6,30 mg/kg bw/day
	Consumers	Inhalation	Acute systemic effects	426,00 mg/m <sup>3</sup>

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	Workers	Inhalation	Acute systemic effects	1091,00 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	246,00 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	98,00 mg/m <sup>3</sup>
	Workers	Skin contact	Acute systemic effects	89,00 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	125,00 mg/kg bw/day
zinc oxide	Consumers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	2,50 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	0,83 mg/kg bw/day
	Workers	Skin contact	Long-term systemic effects	83,00 mg/kg bw/day
	Workers	Inhalation	Long-term local effects	0,50 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	5,00 mg/m <sup>3</sup>
maleic anhydride	Consumers	Inhalation	Long-term systemic effects	0,05 mg/m <sup>3</sup>
	Consumers	Ingestion	Long-term systemic effects	0,06 mg/kg bw/day
	Consumers	Ingestion	Acute systemic effects	0,10 mg/kg bw/day
	Consumers	Skin contact	Acute systemic effects	0,10 mg/kg bw/day
	Consumers	Inhalation	Long-term local effects	0,08 mg/m <sup>3</sup>
	Consumers	Skin contact	Long-term systemic effects	0,10 mg/kg bw/day
	Workers	Inhalation	Acute systemic effects	0,80 mg/m <sup>3</sup>
	Workers	Inhalation	Acute systemic effects	0,95 mg/m <sup>3</sup>
	Workers	Inhalation	Acute local effects	0,80 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	0,40 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term systemic effects	0,19 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,40 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	0,32 mg/m <sup>3</sup>
	Workers	Skin contact	Acute systemic effects	0,20 mg/kg bw/day
	Workers	Skin contact	Long-term systemic	0,20 mg/kg

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			effects	bw/day
	Consumers	Inhalation	Acute systemic effects	

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

Substance name	Environmental Compartment	Value
titanium dioxide; [in powder form containing 1 % or more of particles with aerodynamic diameter $\leq 10 \mu\text{m}$ ]	Sewage treatment plant	100 mg/l
	Fresh water	0,184 mg/l
	Soil	100 mg/kg dry weight (d.w.)
	Sea water	0,0184 mg/l
	Fresh water sediment	1000 mg/kg dry weight (d.w.)
	Sea sediment	100 mg/kg dry weight (d.w.)
trizinc bis(orthophosphate)	Intermittent use/release	0,193 mg/l
	Sea sediment	56,5 mg/kg dry weight (d.w.)
	Fresh water	20,6 $\mu\text{g/l}$
	Soil	35,6 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 $\mu\text{g/l}$
	Fresh water sediment	117,8 mg/kg dry weight (d.w.)
n-butyl acetate	Sea water	6,1 $\mu\text{g/l}$
	Fresh water sediment	0,981 mg/kg dry weight (d.w.)
	Soil	0,0903 mg/kg dry weight (d.w.)
	Sea sediment	0,0981 mg/kg dry weight (d.w.)
	Intermittent use/release	0,36 mg/l
	Sewage treatment plant	35,6 mg/l
2-methoxy-1-methylethyl acetate	Sea water	0,018 mg/l
	Fresh water	0,18 mg/l
	Fresh water	0,635 mg/l
	Intermittent use/release	6,35 mg/l
	Sea sediment	0,329 mg/kg dry weight (d.w.)
	Fresh water sediment	3,29 mg/kg dry weight (d.w.)
2-butoxyethanol	Sewage treatment plant	100 mg/l
	Sea water	0,0635 mg/l
	Soil	0,29 mg/kg dry weight (d.w.)
	Sea sediment	3,46 mg/kg dry

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		weight (d.w.)
	Intermittent use/release	9,1 mg/l
	Secondary Poisoning	0,02 g/kg food
	Sewage treatment plant	463 mg/l
	Sea water	0,88 mg/l
	Fresh water sediment	34,6 mg/kg dry weight (d.w.)
	Soil	2,33 mg/kg dry weight (d.w.)
	Fresh water	8,8 mg/l
zinc oxide	Fresh water sediment	117,8 mg/kg dry weight (d.w.)
	Sea water	6,1 µg/l
	Fresh water	20,6 µg/l
	Sea sediment	56,5 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 µg/l
	Soil	35,6 mg/kg dry weight (d.w.)
maleic anhydride	Fresh water	0,075 mg/l
	Fresh water sediment	0,334 mg/kg dry weight (d.w.)
	Soil	0,0415 mg/kg dry weight (d.w.)
	Sea water	0,01 mg/l
	Intermittent use/release	0,4281 mg/l
	Sewage treatment plant	44,6 mg/l
	Soil	0,01 mg/kg dry weight (d.w.)
	Sea water	0,0075 mg/l
	Secondary Poisoning	6,67 mg/kg food
	Fresh water	0,1 mg/l
	Sewage treatment plant	4,46 mg/l
	Sea sediment	0,006 mg/kg dry weight (d.w.)
	Fresh water sediment	0,06 mg/kg dry weight (d.w.)
	Intermittent use/release	0,75 mg/l
	Sea sediment	0,0334 mg/kg dry weight (d.w.)

### 8.2 Exposure controls

#### Personal protective equipment

Eye protection : German trade association rules - BGR 192 Eye protection  
Tightly fitting safety goggles

Hand protection

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Material : butyl-rubber  
Glove thickness : 0,2 mm  
Protective index : Class 3  
Wearing time : 30 min

Remarks : Gloves should be discarded and replaced if there is any indication of degradation or chemical breakthrough. Before removing gloves clean them with soap and water. Wear suitable gloves tested to EN374.  
German trade association leaflet: Carry gloves (ZH 1/706)

Skin and body protection : Safety shoes  
Use appropriate degowning techniques to remove potentially contaminated clothing.  
Additional body garments should be used based upon the task being performed (e.g., sleevelets, apron, gauntlets, disposable suits) to avoid exposed skin surfaces.  
Long sleeved clothing

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

Skin should be washed after contact.

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

Respiratory protection : Roller application or brushing: This product should not be used under conditions of poor ventilation unless a protective mask with an appropriate gas filter (i.e. type A1 according to standard EN 14387) is used.

German trade association rules - BGR 190 Breathing protection

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

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Physical state : liquid  
Color : white  
Odor : No data available

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Odor Threshold	:	Not relevant
Melting point/freezing point	:	not determined
Boiling point/boiling range	:	not determined
Upper explosion limit / Upper flammability limit	:	not determined
Lower explosion limit / Lower flammability limit	:	not determined
Flash point	:	27 °C
Autoignition temperature	:	not determined
Decomposition temperature	:	Not applicable
pH	:	6,95 Concentration: 10 %
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	> 22 mm <sup>2</sup> /s (40 °C)
Solubility(ies)		
Water solubility	:	insoluble
Partition coefficient: n-octanol/water	:	not determined
Vapor pressure	:	not determined
Relative density	:	not determined
Density	:	1,45 g/cm <sup>3</sup>
Relative vapor density	:	not determined

### 9.2 Other information

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

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### SECTION 10: Stability and reactivity

#### 10.1 Reactivity

No decomposition if stored and applied as directed.

#### 10.2 Chemical stability

No decomposition if stored and applied as directed.

#### 10.3 Possibility of hazardous reactions

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

#### 10.4 Conditions to avoid

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

#### 10.5 Incompatible materials

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

#### 10.6 Hazardous decomposition products

No decomposition if stored and applied as directed.

### SECTION 11: Toxicological information

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

##### Acute toxicity

Not classified based on available information.

##### Product:

Acute oral toxicity : Acute toxicity estimate: > 2.000 mg/kg  
Method: Calculation method

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

##### Components:

##### **n-butyl acetate:**

Acute oral toxicity : LD50 Oral (Rat): 14.000 mg/kg

##### **2-butoxyethanol:**



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Acute oral toxicity : Acute toxicity estimate: 1.200 mg/kg  
Method: Acute toxicity estimate according to Regulation (EC) No. 1272/2008

Acute inhalation toxicity : LC50 (Rat): 2,2 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist  
Method: OECD Test Guideline 403

Acute toxicity estimate: 2,2 mg/l  
Test atmosphere: dust/mist  
Method: Calculation method

### maleic anhydride:

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

### Skin corrosion/irritation

Causes skin irritation.

#### Components:

### maleic anhydride:

Species : Rabbit  
Assessment : Causes burns.

### Serious eye damage/eye irritation

Causes serious eye irritation.

#### Components:

### maleic anhydride:

Species : Rabbit  
Assessment : Causes burns.

### Respiratory or skin sensitization

#### Respiratory sensitization

Not classified based on available information.

#### Components:

### maleic anhydride:

Species : Rat  
Result : Causes sensitization.

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### Germ cell mutagenicity

Not classified based on available information.

### Carcinogenicity

Not classified based on available information.

### Reproductive toxicity

Not classified based on available information.

### STOT-single exposure

May cause drowsiness or dizziness.

### 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

#### Product:

Toxicity to fish : Remarks: No data available

Toxicity to daphnia and other aquatic invertebrates : Remarks: No data available

### 12.2 Persistence and degradability

No data available

### 12.3 Bioaccumulative potential

#### Components:

##### **n-butyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 2,3 (25 °C)  
Method: OECD Test Guideline 117

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### **2-methoxy-1-methylethyl acetate:**

Partition coefficient: n-octanol/water : log Pow: 1,2 (20 °C)  
Method: OECD Test Guideline 117

### **2-butoxyethanol:**

Partition coefficient: n-octanol/water : log Pow: 0,81 (25 °C)  
pH: 7

### **maleic anhydride:**

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

### **12.4 Mobility in soil**

No data available

### **12.5 Results of PBT and vPvB assessment**

#### **Product:**

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

### **12.6 Endocrine disrupting properties**

#### **Product:**

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

### **12.7 Other adverse effects**

#### **Product:**

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

---

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : Uncured product residues and unpurified packaging should be disposed of as hazardous waste.  
Material residues: Allow the basic substance to harden with hardener and dispose of as paint waste.

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Waste should not be disposed of via wastewater.

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

Waste Code : used product  
080111\*, waste paint and varnish containing organic solvents or other dangerous substances

### 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  
(n-butyl acetate, 2-methoxy-1-methylethyl acetate)

ADR : PAINT  
(n-butyl acetate, 2-methoxy-1-methylethyl acetate)

RID : PAINT  
(n-butyl acetate, 2-methoxy-1-methylethyl acetate)

IMDG : PAINT  
(n-butyl acetate, 2-methoxy-1-methylethyl acetate, trizinc bis(orthophosphate), Solvent naphtha (petroleum), light arom.; Low boiling point naphtha -unspecified)

IATA : Paint  
(n-butyl acetate, 2-methoxy-1-methylethyl acetate)

#### 14.3 Transport hazard class(es)

ADN : 3  
ADR : 3  
RID : 3  
IMDG : 3  
IATA : 3

#### 14.4 Packing group

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### ADN

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

### 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

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### 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.

## 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, preparations and articles (Annex XVII) : Conditions of restriction for the following entries should be considered: Number on list 3

REACH - Candidate List of Substances of Very High Concern for Authorization (Article 59). : This product is a mixture and does not contain Substances of Very High Concern (SVHC) equal or above 0.1%. Therefore no advised uses have to be defined and no chemical safety assessment has to be generated.

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) : None

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

E2 ENVIRONMENTAL HAZARDS

34 Petroleum products: (a) gasolines and naphthas, (b) kerosenes (including jet fuels), (c) gas oils (including diesel fuels, home heating oils and gas oil blending streams),(d) heavy fuel oils (e)

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alternative fuels serving the same purposes and with similar properties as regards flammability and environmental hazards as the products referred to in points (a) to (d)

Water hazard class (Germany) : 2 significantly water endangering  
: RE70 Epoxy resin products, sensitising, containing solvents

### Other regulations:

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

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

### 15.2 Chemical Safety Assessment

A Chemical Safety Assessment is not required for this mixture.

## SECTION 16: Other information

### Full text of H-Statements

H226	: Flammable liquid and vapor.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H314	: Causes severe skin burns and eye damage.
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.
H334	: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H351	: Suspected of causing cancer if inhaled.
H372	: Causes damage to organs through prolonged or repeated exposure.
H400	: Very toxic to aquatic life.
H410	: Very toxic to aquatic life with long lasting effects.
H411	: Toxic to aquatic life with long lasting effects.
EUH066	: Repeated exposure may cause skin dryness or cracking.
EUH071	: Corrosive to the respiratory tract.

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### 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
Carc.	:	Carcinogenicity
Eye Dam.	:	Serious eye damage
Eye Irrit.	:	Eye irritation
Flam. Liq.	:	Flammable liquids
Resp. Sens.	:	Respiratory sensitization
Skin Corr.	:	Skin corrosion
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 TRGS 900	:	Germany. TRGS 900 - Occupational exposure limit values.
TRGS 903	:	TRGS 903 - Biological limit values
2000/39/EC / TWA	:	Limit Value - eight hours
2000/39/EC / STEL	:	Short term exposure limit
DE TRGS 900 / AGW	:	Time Weighted Average

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European 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; KECl - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECl - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

### Further information

#### Other information:

No exposure scenario communication is required for this product according to REACH Regulation No. 1907/2006 EC.

Communication of Uses is not required in accordance with REACH Article 31(1)(a) - registered substances / mixtures do not meet the criteria for classification as hazardous in accordance with Regulations 1272/2008 EC or 1999/45/EC.

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

ECHA WebSite



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

### Classification of the mixture:

Flam. Liq. 3	H226
Skin Irrit. 2	H315
Eye Irrit. 2	H319
Skin Sens. 1	H317
STOT SE 3	H336
Aquatic Chronic 2	H411

### Classification procedure:

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

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

### REACH Information

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

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

DE / EN