

# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXSEAL X5154-Acrylic Topcoat X  
Quality No.: 4505X51549000

Revision Date 03.11.2022  
Print Date 03.11.2022  
Version 1

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

### 1.1 Product identifier

Trade name : ALEXSEAL X5154-Acrylic Topcoat X 5154 Aristo Blue

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

Use of the Sub- : Industrial serial painting  
stance/Mixture

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

Producer : Mankiewicz Gebr. & Co. (GmbH & Co. KG)  
Georg-Wilhelm-Strasse 189  
21107 Hamburg  
Germany

#### Only for UK:

Supplied by Mankiewicz UK LLP  
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E-mail address of person : sdb\_info@umco.de  
responsible for the SDS

### 1.4 Emergency telephone number

Emergency telephone num- : +44 1235 239670 (Carechem International)  
ber

## 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 vapour.
Skin sensitisation, 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 3	H412: Harmful to aquatic life with long lasting effects.



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## 2.2 Label elements

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

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.  
H317 May cause an allergic skin reaction.  
H336 May cause drowsiness or dizziness.  
H412 Harmful to aquatic life with long lasting effects.

Supplemental Hazard Statements : EUH066 Repeated exposure may cause skin dryness or cracking.

Precautionary statements : **Prevention:**  
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.  
P261 Avoid breathing mist or vapours.  
P273 Avoid release to the environment.  
P280 Wear protective gloves/ protective clothing/ eye protection/ face protection/ hearing protection.

### Response:

P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
P370 + P378 In case of fire: Use dry sand, dry chemical or alcohol-resistant foam to extinguish.

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

n-butyl acetate  
Hydrocarbons, C9, aromatics  
2-methoxy-1-methylethyl acetate  
heptan-2-one  
reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionylpoly(oxyethylene)  
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate

### Additional Labelling

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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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 of synthetic resins, organic solvents and pigments

#### Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
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	>= 5 - < 12.5
Hydrocarbons, C9, aromatics	64742-95-6 918-668-5 01-2119455851-35	Flam. Liq. 3; H226 STOT SE 3; H336 (Central nervous system) STOT SE 3; H335 (Respiratory system) Asp. Tox. 1; H304 Aquatic Chronic 2; H411 EUH066	>= 5 - < 12.5
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)	>= 5 - < 12.5
heptan-2-one	110-43-0 203-767-1 606-024-00-3 01-2119902391-49	Flam. Liq. 3; H226 Acute Tox. 4; H302 Acute Tox. 4; H332 STOT SE 3; H336 (Central nervous system)	>= 1 - < 5
reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and a-	Not Assigned 400-830-7 607-176-00-3 01-0000015075-76	Skin Sens. 1; H317 Aquatic Chronic 2; H411	>= 0.5 - < 1

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3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)			
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1065336-91-5 01-2119491304-40	Skin Sens. 1A; H317 Repr. 2; H361f Aquatic Acute 1; H400 Aquatic Acute 1; H400 Aquatic Chronic 1; H410 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 1	>= 0.5 - < 1
4-hydroxy-4-methylpentan-2-one	123-42-2 204-626-7 603-016-00-1 01-2119473975-21	Eye Irrit. 2; H319 Repr. 2; H361d STOT SE 3; H335 (Respiratory system)  specific concentration limit Eye Irrit. 2; H319 >= 10 % STOT RE 2; H319 >= 10 %	>= 0.1 - < 0.25
Substances with a workplace exposure limit :			
titanium dioxide	13463-67-7 236-675-5 01-2119489379-17		>= 1 - < 5

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : In all cases of doubt, or when sickness symptoms persist, seek medical attention.  
Never give anything by mouth to an unconscious person.

If inhaled : Remove to fresh air, keep patient warm and at rest.  
Irregular breathing/no breathing: artificial respiration.  
If unconscious place in recovery position and seek medical advice.



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- In case of skin contact : Take off all contaminated clothing immediately.  
Wash skin thoroughly with soap and water or use recognised skin cleanser.  
Do NOT use solvents or thinners !
- In case of eye contact : Remove contact lenses, irrigate copiously with clean, fresh water for at least 10 minutes, holding the eyelids apart and seek medical advice.
- If swallowed : Do NOT induce vomiting.  
If accidentally swallowed obtain immediate medical attention.  
Never give anything by mouth to an unconscious person.  
Keep at rest.

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

- Risks : May cause an allergic skin reaction.  
May cause drowsiness or dizziness.  
Repeated exposure may cause skin dryness or cracking.

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

## SECTION 5: Firefighting measures

### 5.1 Extinguishing media

- Suitable extinguishing media : Alcohol resistant foam, CO2, powders
- Unsuitable extinguishing media : High volume water jet

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

- Specific hazards during fire-fighting : Fire will produce dense black smoke. Exposure to decomposition products may cause a health hazard.

### 5.3 Advice for firefighters

- Special protective equipment for firefighters : Appropriate breathing apparatus may be required.
- Further information : Cool endangered containers with water in case of fire.  
DO NOT ALLOW RUN-OFF FROM FIRE FIGHTING TO ENTER DRAINS OR WATER COURSES!!

## SECTION 6: Accidental release measures

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

- Personal precautions : Exclude sources of ignition and ventilate the area.  
Do not inhale vapours.  
Refer to protective measures listed in sections 7 and 8.



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## 6.2 Environmental precautions

Environmental precautions : Do not let product enter drains.  
If the product contaminates lakes, rivers or sewage, inform appropriate authorities in accordance with local regulations.

## 6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Contain and collect spillage with non-combustible absorbent materials, e.g. sand, earth, vermiculite, diatomaceous earth and place in container for disposal according to local regulations (see chapter 13).  
Clean preferably with a detergent; avoid use of solvents.

## 6.4 Reference to other sections

For personal protection see section 8.

## SECTION 7: Handling and storage

### 7.1 Precautions for safe handling

Advice on safe handling : Prevent the creation of flammable or explosive concentrations of vapour in air and avoid vapour concentrations higher than the occupational exposure limits.  
Comply with the health and safety at work laws.  
Smoking, eating and drinking should be prohibited in the application area.  
Observe specific national regulations for handling and use of paints.

Advice on protection against fire and explosion : The product should only be used in areas from which all naked lights and other sources of ignition have been excluded.  
Preparation may charge electrostatically: always use earthing leads when transferring from one container to another. Operators should wear anti-static footwear and clothing. No sparking tools should be used. Vapours are heavier than air and may spread along floors. Vapours may form explosive mixtures with air.

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

Requirements for storage areas and containers : Electrical equipment should be protected to the appropriate standard. Floors should be of the conducting type. Keep container tightly closed. Never use pressure to empty: container is not a pressure vessel. No smoking. Prevent unauthorized access. Containers which are opened must be carefully resealed and kept upright to prevent leakage.

Further information on storage conditions : Always keep in containers of same material as the original one. See also instructions on the label. Avoid heating and direct sunlight. Keep container dry in a cool, well-ventilated place.

Advice on common storage : Keep away from oxidizing agents and strongly acid or alkaline materials.



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Recommended storage temperature : 5 - 35 °C

## 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	
n-butyl acetate	123-86-4	TWA	150 ppm 724 mg/m3	GB EH40	
		STEL	200 ppm 966 mg/m3	GB EH40	
		STEL	150 ppm 723 mg/m3	2019/1831/E U	
Further information: Indicative					
		TWA	50 ppm 241 mg/m3	2019/1831/E U	
Further information: Indicative					
2-methoxy-1-methylethyl acetate	108-65-6	STEL	100 ppm 550 mg/m3	2000/39/EC	
		Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		TWA	50 ppm 275 mg/m3	2000/39/EC	
Further information: Identifies the possibility of significant uptake through the skin, Indicative					
		TWA	50 ppm 274 mg/m3	GB EH40	
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.					
		STEL	100 ppm 548 mg/m3	GB EH40	
Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.					
heptan-2-one	110-43-0	TWA	50 ppm 238 mg/m3	2000/39/EC	
		Further information: Identifies the possibility of significant uptake through the skin, Indicative			
		STEL	100 ppm 475 mg/m3	2000/39/EC	
Further information: Identifies the possibility of significant uptake through the skin, Indicative					

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		STEL	100 ppm 475 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
		TWA	50 ppm 237 mg/m3	GB EH40
	Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.			
titanium dioxide	13463-67-7	TWA (inhalable dust)	10 mg/m3	GB EH40
		TWA (Respirable dust)	4 mg/m3	GB EH40
4-hydroxy-4-methylpentan-2-one	123-42-2	TWA	50 ppm 241 mg/m3	GB EH40
		STEL	75 ppm 362 mg/m3	GB EH40

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

Substance name	End Use	Exposure routes	Potential health effects	Value
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	35.7 mg/m3
	Consumers	Dermal	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	150 mg/m3
Hydrocarbons, C9, aromatics	Workers	Dermal	Long-term systemic effects	25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	11 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Dermal	Long-term systemic effects	796 mg/kg bw/day
2-methoxy-1-methylethyl acetate	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Dermal	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
heptan-2-one	Workers	Inhalation	Long-term systemic	394.25 mg/m3



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	Workers	Dermal	effects Long-term systemic effects	54.27 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	84.31 mg/m3
	Consumers	Dermal	Long-term systemic effects	23.32 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	23.32 mg/kg bw/day
ethyl 3-ethoxypropionate	Workers	Skin contact	Long-term systemic effects	102 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	610 mg/m3
	Consumers	Inhalation	Long-term systemic effects	72.6 mg/m3
	Consumers	Oral	Long-term systemic effects	1.2 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	24.2 mg/kg bw/day
reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxy-phenyl)propionyl-omega-hydroxy-poly(oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxy-phenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxy-phe-nyl)propionyloxypoly(oxyethylene)	Workers	Inhalation	Long-term systemic effects	0.398 mg/m3
	Workers	Dermal	Long-term systemic effects	0.25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.099 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.025 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.025 mg/kg bw/day
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Workers	Inhalation	Long-term systemic effects	1.27 mg/m3

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DE85 2001 0020 0000 3732 05

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	Workers	Dermal	Long-term systemic effects	1.8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.31 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.9 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.18 mg/kg bw/day
4-hydroxy-4-methylpentan-2-one	Workers	Inhalation	Long-term systemic effects	32.6 mg/m3
	Workers	Dermal	Long-term systemic effects	467 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5.8 mg/m3
	Consumers	Dermal	Long-term systemic effects	167 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.67 mg/kg bw/day
n-butyl acetate	Workers	Inhalation	Long-term systemic effects	300 mg/m3
	Workers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	35.7 mg/m3
	Consumers	Dermal	Long-term systemic effects	6 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	2 mg/kg bw/day
Hydrocarbons, C9, aromatics	Workers	Inhalation	Long-term systemic effects	150 mg/m3
	Workers	Dermal	Long-term systemic effects	25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	32 mg/m3
	Consumers	Dermal	Long-term systemic effects	11 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	11 mg/kg bw/day
2-methoxy-1-methylethyl acetate	Workers	Inhalation	Long-term systemic effects	275 mg/m3
	Workers	Dermal	Long-term systemic effects	796 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	33 mg/m3
	Consumers	Dermal	Long-term systemic effects	320 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	36 mg/kg bw/day
heptan-2-one	Workers	Inhalation	Long-term systemic effects	394.25 mg/m3
	Workers	Dermal	Long-term systemic effects	54.27 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	84.31 mg/m3

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	Consumers	Dermal	Long-term systemic effects	23.32 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	23.32 mg/kg bw/day
ethyl 3-ethoxypropionate	Workers	Skin contact	Long-term systemic effects	102 mg/kg bw/day
	Workers	Inhalation	Long-term systemic effects	610 mg/m3
	Consumers	Inhalation	Long-term systemic effects	72.6 mg/m3
	Consumers	Oral	Long-term systemic effects	1.2 mg/kg bw/day
	Consumers	Dermal	Long-term systemic effects	24.2 mg/kg bw/day
reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxy-phenyl)propionyl-omega-hydroxy-poly(oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxy-phenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxy-phe-nyl)propionyloxypoly(oxyethylene)	Workers	Inhalation	Long-term systemic effects	0.398 mg/m3
	Workers	Dermal	Long-term systemic effects	0.25 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.099 mg/m3
	Consumers	Dermal	Long-term systemic effects	0.025 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	0.025 mg/kg bw/day
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Workers	Inhalation	Long-term systemic effects	1.27 mg/m3
	Workers	Dermal	Long-term systemic effects	1.8 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	0.31 mg/m3
	Consumers	Dermal	Long-term systemic	0.9 mg/kg

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200 300 00  
200 100 20

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Persönlich haftende Gesellschafterin:  
Grau Gebr. Beteiligungs-GmbH  
Sitz/Registriergericht Hamburg: HRB 17189  
Geschäftsführender Gesellschafter:  
Michael O. Grau

Bureau Veritas  
Certification:  
ISO 9001,  
TS 16949,  
EN 9100



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according to Regulation (EC) No. 1907/2006



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Quality No.: 4505X51549000

Revision Date 03.11.2022  
Print Date 03.11.2022  
Version 1

	Consumers	Oral	effects Long-term systemic effects	bw/day 0.18 mg/kg bw/day
4-hydroxy-4-methylpentan-2-one	Workers	Inhalation	Long-term systemic effects	32.6 mg/m3
	Workers	Dermal	Long-term systemic effects	467 mg/kg bw/day
	Consumers	Inhalation	Long-term systemic effects	5.8 mg/m3
	Consumers	Dermal	Long-term systemic effects	167 mg/kg bw/day
	Consumers	Oral	Long-term systemic effects	1.67 mg/kg bw/day

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

Substance name	Environmental Compartment	Value
n-butyl acetate	Fresh water	0.18 mg/l
	Marine water	0.0018 mg/l
	Fresh water sediment	0.981 mg/kg dry weight (d.w.)
	Marine sediment	0.098 mg/kg dry weight (d.w.)
	Sewage treatment plant	35.6 mg/l
	Soil	0.09 mg/kg dry weight (d.w.)
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l
	Marine water	0.064 mg/l
	Fresh water sediment	3.29 mg/kg dry weight (d.w.)
	Marine sediment	0.329 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Soil	0.29 mg/kg dry weight (d.w.)
3-methoxybutyl acetate	Fresh water	0.007 mg/l
	Marine water	0.001 mg/l
	Fresh water sediment	0.041 mg/kg dry weight (d.w.)
	Marine sediment	0.004 mg/kg dry weight (d.w.)
	Sewage treatment plant	1000 mg/l
	Soil	0.004 mg/kg dry weight (d.w.)
heptan-2-one	Fresh water	0.098 mg/l
	Sewage treatment plant	12.5 mg/l
	Marine water	0.01 mg/l
	Soil	0.321 mg/kg dry weight (d.w.)
	Marine sediment	0.189 mg/kg dry weight (d.w.)
	Fresh water sediment	1.89 mg/kg dry weight (d.w.)
ethyl 3-ethoxypropionate	Fresh water	0.061 mg/l



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	Marine water	0.006 mg/l
	Sewage treatment plant	50 mg/l
	Fresh water sediment	0.419 mg/kg dry weight (d.w.)
	Marine sediment	0.042 mg/kg dry weight (d.w.)
	Soil	0.048 mg/kg dry weight (d.w.)
reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	Fresh water	0.023 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	100 mg/l
	Fresh water sediment	7.26 mg/kg dry weight (d.w.)
	Marine water	0.726 mg/kg dry weight (d.w.)
	Soil	14.52 mg/kg dry weight (d.w.)
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Fresh water	0.002 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	1.05 mg/kg dry weight (d.w.)
	Marine sediment	0.11 mg/kg dry weight (d.w.)
	Soil	0.21 mg/kg dry weight (d.w.)
4-hydroxy-4-methylpentan-2-one	Fresh water	2 mg/l
	Marine water	0.2 mg/l
	Fresh water sediment	7.4 mg/kg dry weight (d.w.)
	Marine sediment	0.74 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0.31 mg/kg dry weight (d.w.)
n-butyl acetate	Fresh water	0.18 mg/l
	Marine water	0.0018 mg/l
	Fresh water sediment	0.981 mg/kg dry weight (d.w.)
	Marine sediment	0.098 mg/kg dry

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200 300 00  
HYVEDEMM300  
200 100 20  
PNBKDEFF200

DE58 2003 0000 0059 2733 00  
DE85 2001 0020 0000 3732 05

Sitz/Registriergericht Hamburg; HRA 42442  
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		weight (d.w.)
	Sewage treatment plant	35.6 mg/l
	Soil	0.09 mg/kg dry weight (d.w.)
2-methoxy-1-methylethyl acetate	Fresh water	0.635 mg/l
	Marine water	0.064 mg/l
	Fresh water sediment	3.29 mg/kg dry weight (d.w.)
	Marine sediment	0.329 mg/kg dry weight (d.w.)
	Sewage treatment plant	100 mg/l
	Soil	0.29 mg/kg dry weight (d.w.)
3-methoxybutyl acetate	Fresh water	0.007 mg/l
	Marine water	0.001 mg/l
	Fresh water sediment	0.041 mg/kg dry weight (d.w.)
	Marine sediment	0.004 mg/kg dry weight (d.w.)
	Sewage treatment plant	1000 mg/l
	Soil	0.004 mg/kg dry weight (d.w.)
heptan-2-one	Fresh water	0.098 mg/l
	Sewage treatment plant	12.5 mg/l
	Marine water	0.01 mg/l
	Soil	0.321 mg/kg dry weight (d.w.)
	Marine sediment	0.189 mg/kg dry weight (d.w.)
	Fresh water sediment	1.89 mg/kg dry weight (d.w.)
ethyl 3-ethoxypropionate	Fresh water	0.061 mg/l
	Marine water	0.006 mg/l
	Sewage treatment plant	50 mg/l
	Fresh water sediment	0.419 mg/kg dry weight (d.w.)
	Marine sediment	0.042 mg/kg dry weight (d.w.)
	Soil	0.048 mg/kg dry weight (d.w.)
reaction mass of a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-hydroxypoly(oxyethylene) and a-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyl-omega-3-(3-(2H-benzotriazol-2-yl)-5-tert-butyl-4-hydroxyphenyl)propionyloxypoly(oxyethylene)	Fresh water	0.023 mg/l
	Marine water	0 mg/l

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BIC DEUTDE33  
IBAN DE58 2007 0000 0600 2273 00

Bank Name HypoVereinsbank  
Ort Hamburg  
Kto.-Nr. 59273300  
BLZ 200 300 00  
BIC HYVEDE33  
IBAN DE34 2003 0000 0059 2733 00

Bank Name Postbank  
Ort Hamburg  
Kto.-Nr. 373205  
BLZ 200 100 20  
BIC PBNKDE33  
IBAN DE85 2001 0020 0000 3732 05

Sitz/Registriergericht Hamburg: HRA 42442  
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	Sewage treatment plant	100 mg/l
	Fresh water sediment	7.26 mg/kg dry weight (d.w.)
	Marine water	0.726 mg/kg dry weight (d.w.)
	Soil	14.52 mg/kg dry weight (d.w.)
Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	Fresh water	0.002 mg/l
	Marine water	0 mg/l
	Sewage treatment plant	1 mg/l
	Fresh water sediment	1.05 mg/kg dry weight (d.w.)
	Marine sediment	0.11 mg/kg dry weight (d.w.)
	Soil	0.21 mg/kg dry weight (d.w.)
4-hydroxy-4-methylpentan-2-one	Fresh water	2 mg/l
	Marine water	0.2 mg/l
	Fresh water sediment	7.4 mg/kg dry weight (d.w.)
	Marine sediment	0.74 mg/kg dry weight (d.w.)
	Sewage treatment plant	10 mg/l
	Soil	0.31 mg/kg dry weight (d.w.)

## 8.2 Exposure controls

### Engineering measures

Provide adequate ventilation. Where reasonably practicable this should be achieved by the use of local exhaust ventilation and good general extraction. If these are not sufficient to maintain aerosol- and solvent vapours concentration below the OEL, suitable respiratory protection must be worn.

### Personal protective equipment

Eye/face protection : Wear safety goggles to protect against solvent splashes.

Hand protection

Remarks : Adhere to the professional organisation rule "Use of protective gloves". Appropriate chemicals resistant glove tested in compliance with EN 374.  
Recommendation for protection against components generally found in the products:

For short-term contact (i.e. splash protection):

Appropriate material:

nitrile rubber, Neoprene

Material thickness: > 0,4 mm

Breakthrough time: > 480 min

Before use, the protective glove should be tested in any case



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for its specific work-station suitability (i.e. mechanical resistance, product compatibility and antistatic properties). Adhere to the manufacturer's instructions and information relating to the use, storage, care and replacement of protective gloves. Protective gloves shall be replaced immediately when physically damaged or worn. Preventive hand protection (skin protection cream) recommended. Wash immediately contaminated skin. Design operations thus to avoid permanent use of protective gloves.

**Skin and body protection** : Depending on the probability of the occurrence of dangerously explosive atmospheres, adapted protective clothing must be worn.

**Respiratory protection** : If the solvent concentration is above the air limit values, a breathing apparatus approved for this purpose must be worn. Use half-mask model with cartridge or air-fed. Dry grinding, torch cutting and/or welding however can produce hazardous dust and/or vapour. If possible, machine employing a wet medium. Where practicable, install exhaust hoods to improve capture of vapours and fumes and avoid exposition; otherwise wear respiratory protection equipment.

**Protective measures** : Do not eat or drink during work - no smoking. Avoid product contact with skin, eyes and clothing. Avoid the inhalation of dust from sanding, particulates and spray mist arising from the application of this preparation. When operators, whether spraying or not, have to work inside the spray booth, ventilation is unlikely to be sufficient to control particulates and solvent vapour in all cases. In such circumstances they should wear a compressed air-fed respirator during the spraying process until such time as the particulates and solvent vapour concentration has fallen below the exposure limits.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

**Physical state** : liquid

**Colour** : according product name

**Odour** : characteristic

**Boiling point/boiling range** : ca. 120 °C

**Upper explosion limit** : 10 %(V)

**Lower explosion limit** : 1 %(V)

**Flash point** : 35 °C

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HypoVereinsbank	Hamburg	59273300	200 300 00	HYVEDEMM300	DE34 2003 0000 0059 2733 00
Postbank	Hamburg	373205	200 100 20	PBNKDEFF200	DE85 2001 0020 0000 3732 05

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Method: ISO 13736

Auto-ignition temperature	:	> 400 °C
pH	:	4 - 6 (20 °C) Concentration: 10 %
Viscosity	:	
Viscosity, kinematic	:	> 21 mm <sup>2</sup> s
Flow time	:	> 150 s Cross section: 4 mm Method: DIN 53211
	:	> 100 s Cross section: 6 mm Method: ISO 2431
Solubility(ies)	:	
Water solubility	:	insoluble
Vapour pressure	:	ca. 100 hPa (50 °C)
Density	:	ca. 1.2 g/cm <sup>3</sup> (20 °C)

## 9.2 Other information

Miscibility with water	:	immiscible
Solvent separation	:	< 3 %(V)

## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No decomposition if stored and applied as directed.

### 10.2 Chemical stability

Stable under normal conditions.

### 10.3 Possibility of hazardous reactions

Hazardous reactions : No dangerous reaction known under conditions of normal use.  
There are no data available on the preparation itself.

### 10.4 Conditions to avoid

Conditions to avoid : Stable under recommended storage and handling conditions  
(See section 7).

### 10.5 Incompatible materials

Materials to avoid : Keep away from oxidizing agents, strongly alkaline and strongly acid materials in order to avoid exothermic reactions.

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## 10.6 Hazardous decomposition products

When exposed to high temperatures may produce hazardous decomposition products such as carbon monoxide and dioxide, smoke, oxides of nitrogen.

## 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: > 20 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour  
Method: Calculation method

#### Components:

##### heptan-2-one:

Acute oral toxicity : LD50 (Rat): 1,600 mg/kg  
Acute inhalation toxicity : LC50 (Rat, male and female): 16.7 mg/l  
Exposure time: 4 h  
Test atmosphere: vapour

##### 4-hydroxy-4-methylpentan-2-one:

Acute oral toxicity : LD50 (Rat): 3,002 mg/kg  
Acute dermal toxicity : LD50 (Rabbit): 13,630 mg/kg

#### Skin corrosion/irritation

Repeated exposure may cause skin dryness or cracking.

#### Serious eye damage/eye irritation

Not classified based on available information.

#### Components:

##### 4-hydroxy-4-methylpentan-2-one:

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Eye irritation

#### Respiratory or skin sensitisation

##### Skin sensitisation

May cause an allergic skin reaction.

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## Respiratory sensitisation

Not classified based on available information.

## Germ cell mutagenicity

Not classified based on available information.

## Carcinogenicity

Not classified based on available information.

## Reproductive toxicity

Not classified based on available information.

## STOT - single exposure

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.

### Further information

#### Product:

Remarks : Exposure of vapour concentration in excess of the stated OEL's may result in adverse health effects such as mucous membrane and respiratory system irritation and adverse effects on kidney, liver and central nervous system. Symptoms and signs include headache, dizziness, fatigue muscular weakness, drowsiness and in extrem cases, loss of consciousness. Repeated or prolonged contact with the preparation may cause removal of natural fat from the skin resulting in non-allergic contact dermatitis and absorption through the skin. The liquid splashed in the eyes may cause irritation and reversible damage.



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## SECTION 12: Ecological information

### 12.1 Toxicity

#### Product:

#### Ecotoxicology Assessment

Acute aquatic toxicity : There are no data available on the preparation itself.

#### Components:

#### Hydrocarbons, C9, aromatics:

Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 9.2 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 3.2 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Raphidocelis subcapitata (freshwater green alga)): 2.9 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

#### Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate:

Toxicity to fish : LC50 (Lepomis macrochirus (Bluegill sunfish)): 0.97 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 20 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : EC50 (Desmodesmus subspicatus (green algae)): 1.68 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201  
Remarks: The product has low solubility in the test medium.  
An aqueous dispersion was tested.

M-Factor (Acute aquatic toxicity) : 1

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 1 mg/l  
Exposure time: 21 d  
Species: Daphnia magna (Water flea)  
Method: OECD Test Guideline 211  
Remarks: The product has low solubility in the test medium.  
An aqueous dispersion was tested.

M-Factor (Chronic aquatic toxicity) : 1

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## 12.2 Persistence and degradability

### Product:

Biodegradability : Remarks: There are no data available on the preparation itself.

## 12.3 Bioaccumulative potential

### Product:

Bioaccumulation : Remarks: There are no data available on the preparation itself.

## 12.4 Mobility in soil

### Product:

Mobility : Remarks: There are no data available on the preparation itself.

## 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.  
: 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 : There are no data available on the preparation itself.

The product should not be allowed to enter drains or water courses.

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## SECTION 13: Disposal considerations

### 13.1 Waste treatment methods

- Product : Dispose of in accordance with local regulations.
- Contaminated packaging : Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed off in agreement with the regional waste disposal company.

## SECTION 14: Transport information

### 14.1 UN number or ID number

- ADR : UN 1263
- IMDG : UN 1263
- IATA : UN 1263

### 14.2 UN proper shipping name

- ADR : PAINT
- IMDG : PAINT
- IATA : PAINT

### 14.3 Transport hazard class(es)

- |      | Class | Subsidiary risks |
|------|-------|------------------|
| ADR  | : 3   |                  |
| IMDG | : 3   |                  |
| IATA | : 3   |                  |

### 14.4 Packing group

- ADR
- Packing group : III
- Classification Code : F1
- Hazard Identification Number : 30
- Labels : 3
- Tunnel restriction code : (D/E)
- Remarks : If transported within the user's premises: To be transported always in closed, upright and safe containers. Make sure that persons handling these containers are aware of the rules of conduct in case of incident or spillage.

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

- IATA (Cargo)
- Packing instruction (cargo) : 366

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aircraft)  
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

### ADR

Environmentally hazardous : no

### IMDG

Marine pollutant : no

## 14.6 Special precautions for user

Remarks : ADR: Receptacles with less than 450 litres capacity, are not subject to ADR (see ADR 2.2.3.1.5)  
IMDG: Receptacles with less than 450 litres capacity, are not subject to the regulations of IMDG chapters 4.1, 5.2 and 6.1 (see IMDG 2.3.2.5)

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

Relevant EU provisions transposed through retained EU law

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

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

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 35.16 %, 422 g/l  
VOC content excluding water



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## Other regulations:

### 15.2 Chemical safety assessment

A chemical safety assessment has not been carried out for the mixture.

## SECTION 16: Other information

### Full text of H-Statements

H226	: Flammable liquid and vapour.
H302	: Harmful if swallowed.
H304	: May be fatal if swallowed and enters airways.
H317	: May cause an allergic skin reaction.
H319	: Causes serious eye irritation.
H332	: Harmful if inhaled.
H335	: May cause respiratory irritation.
H336	: May cause drowsiness or dizziness.
H361d	: Suspected of damaging the unborn child.
H361f	: Suspected of damaging fertility.
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.

### Full text of other abbreviations

Acute Tox.	: Acute toxicity
Aquatic Acute	: Short-term (acute) aquatic hazard
Aquatic Chronic	: Long-term (chronic) aquatic hazard
Asp. Tox.	: Aspiration hazard
Eye Irrit.	: Eye irritation
Flam. Liq.	: Flammable liquids
Repr.	: Reproductive toxicity
Skin Sens.	: Skin sensitisation
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
2019/1831/EU	: Europe. Commission Directive 2019/1831/EU establishing a fifth list of indicative occupational exposure limit values
GB EH40	: UK. EH40 WEL - Workplace Exposure Limits
2000/39/EC / TWA	: Limit Value - eight hours
2000/39/EC / STEL	: Short term exposure limit
2019/1831/EU / TWA	: Limit Value - eight hours
2019/1831/EU / STEL	: Short term exposure limit
GB EH40 / TWA	: Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL	: Short-term exposure limit (15-minute reference period)

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 - Emergen-

Mankiewicz Gebr. & Co. (GmbH & Co. KG) Georg-Wilhelm-Straße 189 21107 Hamburg (Wilhelmsburg) Tel.: +49 (0) 40 / 75 10 30 Fax: +49 (0) 40 / 75 10 33 75 www.mankiewicz.de	Bank Name Deutsche Bank HypoVereinsbank Postbank	Ort Hamburg Hamburg Hamburg	Kto.-Nr. 600227300 59273300 373205	BLZ 200 700 00 200 300 00 200 100 20	BIC DEUTDE33 HYVEDE33 PNBKDE33	IBAN DE58 2007 0000 0600 2273 00 DE34 2003 0000 0059 2733 00 DE85 2001 0020 0000 3732 05	Sitz/Registriergericht Hamburg; HRA 42442 Persönlich haftende Gesellschafterin: Grau Gebr. Beteiligungs-GmbH Sitz/Registriergericht Hamburg; HRB 17189 Geschäftsführender Gesellschafter: Michael O. Grau	Bureau Veritas Certification: ISO 9001, TS 16949, EN 9100	
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# SAFETY DATA SHEET

according to Regulation (EC) No. 1907/2006



Commercial Product Name: ALEXSEAL X5154-Acrylic Topcoat X  
Quality No.: 4505X51549000

Revision Date 03.11.2022  
Print Date 03.11.2022  
Version 1

cy Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of Very High Concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

## Further information

Other information : The information given in this material safety data sheet does not release the user from its duty of risk assessment and control in the work place defined in other health and safety law. Adhere to the national sanitary and occupational safety regulations when using this product.

This safety datasheet complies with the requirements of regulation (EC) No 1907/2006(2020/878).

## Classification of the mixture:

Flam. Liq. 3	H226
Skin Sens. 1	H317
STOT SE 3	H336
Aquatic Chronic 3	H412

## Classification procedure:

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

## Department issuing safety data sheet

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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

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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.

GB / EN

