

Safety Data Sheet

according to Regulation (EC) No 1907/2006

Superplast Topcoat 6D973, RAL3020

Revision date: 09.09.2024

Product code: A1018046

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

1.1. Product identifier

Superplast Topcoat 6D973, RAL3020

nanoform

Product group: Produkt

UFI: A0P0-M318-8P84-378V

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

Use of the substance/mixture

topcoat pigmented

1.3. Details of the supplier of the safety data sheet

Company name: Bergolin GmbH & Co. KG
Street: Sachsenring 1
Place: D-27711 Osterholz-Scharmbeck
Telephone: +49 4795 95899 0
e-mail: info@bergolin.de
Contact person: Gefahrstoffmanagement
e-mail: sdb@bergolin.de
Internet: www.bergolin.de
Responsible Department: Sicherheitsdatenblattverwaltung

1.4. Emergency telephone number:

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No 1272/2008

Flam. Liq. 3; H226

Skin Sens. 1; H317

STOT SE 3; H336

Aquatic Chronic 2; H411

Full text of hazard statements: see SECTION 16.

2.2. Label elements

Regulation (EC) No 1272/2008

Hazard components for labelling

2-methoxy-1-methylethyl acetate

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

Fatty acids, C14-18 and C16-18-unsaturated, maleated

C.I. Azoic Coupl. Comp. 18

Signal word: Warning

Pictograms:



Hazard statements

H226 Flammable liquid and vapour.

H317 May cause an allergic skin reaction.

H336 May cause drowsiness or dizziness.

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H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.

P391 Collect spillage.

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

SECTION 3: Composition/information on ingredients
3.2. Mixtures
Chemical characterization

polyurethane system

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
Classification (Regulation (EC) No 1272/2008)				
108-65-6	2-methoxy-1-methylethyl acetate			20 - < 25 %
	203-603-9	607-195-00-7	01-2119475791-29	
Flam. Liq. 3, STOT SE 3; H226 H336				
6535-46-2	C.I. Pigment Red 112 (nanoform: .)			5 - < 10 %
	229-440-3		01-2119456820-39	
Aquatic Chronic 2; H411				
64742-95-6	Solvent naphtha (petroleum), light aromatic, benzene content < 0,1%			5 - < 10 %
			01-2119455851-35	
Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411				
123-86-4	n-butyl acetate			1 - < 5 %
	204-658-1	607-025-00-1	01-2119485493-29	
Flam. Liq. 3, STOT SE 3; H226 H336 EUH066				
Hydrocarbons, C9, aromatics				
	918-668-5		01-2119455851-35	1 - < 5 %
Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 EUH066				
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			1 - < 5 %
	915-687-0		01-2119491304-40	
Repr. 2, Skin Sens. 1, Aquatic Acute 1, Aquatic Chronic 1; H361 H317 H400 H410				
85711-46-2	Fatty acids, C14-18 and C16-18-unsaturated, maleated			< 1 %
	288-306-2		01-2119976378-19	
Skin Irrit. 2, Skin Sens. 1; H315 H317				
135-61-5	C.I. Azoic Coupl. Comp. 18			< 0.1 %
	205-205-0		01-2119473801-38	
Skin Sens. 1A, Aquatic Chronic 2; H317 H411				

Full text of H and EUH statements: see section 16.

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Specific Conc. Limits, M-factors and ATE

CAS No	EC No	Chemical name	Quantity
Specific Conc. Limits, M-factors and ATE			
108-65-6	203-603-9	2-methoxy-1-methylethyl acetate	20 - < 25 %
dermal: LD50 = >5000 mg/kg; oral: LD50 = 6190 mg/kg			
6535-46-2	229-440-3	C.I. Pigment Red 112	5 - < 10 %
dermal: LD50 = >5000 mg/kg; oral: LD50 = >5000 mg/kg			
64742-95-6		Solvent naphtha (petroleum), light aromatic, benzene content < 0,1%	5 - < 10 %
dermal: LD50 = >3160 mg/kg; oral: LD50 = 3592 mg/kg			
123-86-4	204-658-1	n-butyl acetate	1 - < 5 %
inhalation: LC50 = >21 mg/l (vapours); dermal: LD50 = 14112 mg/kg; oral: LD50 = 10760 mg/kg			
918-668-5		Hydrocarbons, C9, aromatics	1 - < 5 %
dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg			
1065336-91-5	915-687-0	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	1 - < 5 %
dermal: LD50 = >3000 mg/kg; oral: LD50 = >3000 mg/kg			
85711-46-2	288-306-2	Fatty acids, C14-18 and C16-18-unsaturated, maleated	< 1 %
oral: LD50 = >2000 mg/kg			
135-61-5	205-205-0	C.I. Azoic Coupl. Comp. 18	< 0.1 %
oral: LD50 = >5000 mg/kg			

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

When in doubt or if symptoms are observed, get medical advice. In case of accident or unwellness, seek medical advice immediately (show directions for use or safety data sheet if possible).

Never give anything by mouth to an unconscious person or a person with cramps.

If unconscious place in recovery position and seek medical advice.

After inhalation

Remove casualty to fresh air and keep warm and at rest.

If breathing is irregular or stopped, administer artificial respiration.

After contact with skin

Immediately remove any contaminated clothing, shoes or stockings.

After contact with skin, wash immediately with plenty of water and soap.

Do not wash with: Solvents/Thinner.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist. Remove contact lenses, if present and easy to do. Continue rinsing. Seek medical advice immediately.

After ingestion

If accidentally swallowed rinse the mouth with plenty of water (only if the person is conscious) and obtain immediate medical attention.

Put victim at rest, cover with a blanket and keep warm.

Do NOT induce vomiting.

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

No information available.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

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5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam, Carbon dioxide (CO2), Extinguishing powder, Water mist

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.

Hazardous decomposition products: carbon black. Health hazard.

Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.

In case of fire: Wear self-contained breathing apparatus.

Additional information

Collect contaminated fire extinguishing water separately. Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from sources of ignition - No smoking. Ventilate affected area.

Avoid breathing dust/fume/gas/mist/vapours/spray.

Safe handling: see section 7

Personal protection equipment: see section 8

Clear spills immediately.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

In case of gas escape or of entry into waterways, soil or drains, inform the responsible authorities.

6.3. Methods and material for containment and cleaning up

Other information

Prevent spread over a wide area (e.g. by containment or oil barriers). Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Collect in closed and suitable containers for disposal. Disposal: see section 13

Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

Disposal: see section 13

SECTION 7: Handling and storage

Personal protection equipment: see section 8

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop. Only use the material in places where open light, fire and other flammable sources can be kept away.

Use explosion-proof electrical equipment. Filling and transfer: Take precautionary measures against static discharges. Provide earthing of containers, equipment, pumps and ventilation facilities. Wear anti-static footwear and clothing. Use only antistatically equipped (spark-free) tools.

Avoid contact with skin, eyes and clothes. Avoid: Inhalation of vapours or spray/mists, Inhalation of dust/particles. When using do not eat, drink, smoke, sniff.

Keep away from sources of heat (e.g. hot surfaces), sparks and open flames.

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Never use pressure to empty container. Keep/Store only in original container.

Do not allow to enter into surface water or drains.

Advice on protection against fire and explosion

Solvent - Vapours are heavier than air, spread along floors and form explosive mixtures with air.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Store in accordance with: Betriebssicherheitsverordnung (BetrSichV).

Hints on joint storage

Do not store together with: Oxidizing agent, Strong acid, Strong alkali, Food and feedingstuffs

Further information on storage conditions

Notice the directions for use on the label.

Keep container tightly closed in a cool, well-ventilated place. Protect from sunlight. Keep away from sources of ignition - No smoking. Store in a place accessible by authorized persons only. Always close containers tightly after the removal of product.

7.3. Specific end use(s)

No further relevant information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m ³	fib/cm ³	Category	Origin
108-65-6	2-Methoxy-1-methylethylacetate	50	275		TWA (8 h)	
		100	550		STEL (15 min)	
7727-43-7	Barium sulphate, respirable dust	-	5		TWA (8 h)	
123-86-4	Butyl acetate	150	710		TWA (8 h)	
-	Silica, amorphous, respirable dust	200	950		STEL (15 min)	
		-	2.4		TWA (8 h)	

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DNEL/DMEL values

CAS No	Substance			
	DNEL type	Exposure route	Effect	Value
108-65-6	2-methoxy-1-methylethyl acetate			
Worker DNEL, long-term	inhalation	systemic	275 mg/m ³	
Worker DNEL, long-term	dermal	systemic	796 mg/kg bw/day	
Consumer DNEL, long-term	inhalation	systemic	33 mg/m ³	
Consumer DNEL, long-term	inhalation	local	33 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	320 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	36 mg/kg bw/day	
6535-46-2	C.I. Pigment Red 112			
Worker DNEL, long-term	dermal	systemic	42 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	49 mg/m ³	
Worker DNEL, long-term	inhalation	local	3 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	25 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	25 mg/kg bw/day	
7727-43-7	barium sulfate			
Worker DNEL, long-term	inhalation	systemic	10 mg/m ³	
Worker DNEL, long-term	inhalation	local	10 mg/m ³	
Consumer DNEL, long-term	inhalation	systemic	10 mg/m ³	
Consumer DNEL, long-term	oral	systemic	13000 mg/kg bw/day	
64742-95-6	Solvent naphtha (petroleum), light aromatic, benzene content < 0,1%			
Consumer DNEL, long-term	inhalation	systemic	32 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	11 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	11 mg/kg bw/day	
Worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day	
Worker DNEL, long-term	inhalation	systemic	150 mg/m ³	
123-86-4	n-butyl acetate			
Worker DNEL, acute	inhalation	systemic	600 mg/m ³	
Worker DNEL, acute	inhalation	local	600 mg/m ³	
Worker DNEL, long-term	inhalation	systemic	300 mg/m ³	
Worker DNEL, long-term	inhalation	local	300 mg/m ³	
Consumer DNEL, acute	inhalation	systemic	300 mg/m ³	
Consumer DNEL, acute	inhalation	local	300 mg/m ³	
Consumer DNEL, long-term	inhalation	systemic	35,7 mg/m ³	
Consumer DNEL, long-term	inhalation	local	35,7 mg/m ³	
Consumer DNEL, long-term	dermal	systemic	6 mg/kg bw/day	
Consumer DNEL, acute	dermal	systemic	6 mg/kg bw/day	
Consumer DNEL, long-term	oral	systemic	2 mg/kg bw/day	
Consumer DNEL, acute	oral	systemic	2 mg/kg bw/day	
Worker DNEL, long-term	dermal	systemic	11 mg/kg bw/day	
Worker DNEL, acute	dermal	systemic	11 mg/kg bw/day	

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Hydrocarbons, C9, aromatics			
Worker DNEL, long-term	dermal	systemic	25 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	150 mg/m ³
Consumer DNEL, long-term	oral	systemic	11 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	32 mg/m ³
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate		
Consumer DNEL, long-term	oral	systemic	0,18 mg/kg bw/day
Consumer DNEL, long-term	dermal	systemic	0,9 mg/kg bw/day
Worker DNEL, long-term	dermal	systemic	1,8 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	0,31 mg/m ³
Worker DNEL, long-term	inhalation	systemic	1,27 mg/m ³
135-61-5	C.I. Azoic Coupl. Comp. 18		
Worker DNEL, long-term	dermal	systemic	42 mg/kg bw/day
Worker DNEL, long-term	inhalation	systemic	49 mg/m ³
Worker DNEL, long-term	inhalation	local	3 mg/m ³
Consumer DNEL, long-term	dermal	systemic	25 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	25 mg/kg bw/day

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PNEC values

CAS No	Substance	
Environmental compartment		Value
108-65-6	2-methoxy-1-methylethyl acetate	
Freshwater		0,635 mg/l
Marine water		0,064 mg/l
Freshwater sediment		3,29 mg/kg
Marine sediment		0,329 mg/kg
Soil		0,29 mg/kg
7727-43-7	barium sulfate	
Freshwater		0,115 mg/l
Freshwater sediment		600,4 mg/kg
Soil		207,7 mg/kg
123-86-4	n-butyl acetate	
Freshwater		0,18 mg/l
Freshwater (intermittent releases)		0,356 mg/l
Marine water		0,018 mg/l
Freshwater sediment		0,981 mg/kg
Marine sediment		0,0981 mg/kg
Micro-organisms in sewage treatment plants (STP)		35,6 mg/l
Soil		0,093 mg/kg
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate	
Freshwater		0,0022 mg/l
Marine water		0,00022 mg/l
Marine sediment		0,11 mg/kg
Soil		0,21 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Provide adequate ventilation.

If handled uncovered, arrangements with local exhaust ventilation should be used if possible.

If technical exhaust or ventilation measures are not possible or insufficient, respiratory protection must be worn.

Individual protection measures, such as personal protective equipment

Eye/face protection

Wear eye protection/face protection.

Hand protection

Wear protective gloves. Replace when worn. The quality of the protective gloves resistant to chemicals must be chosen as a function of the specific working place concentration and quantity of hazardous substances. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. Observe the wear time limits as specified by the manufacturer.

Suitable material: rubair bútileach nó Viton (is gá go mbeadh resistance ar an ábhar agus See information supplied by the manufacturer.)

Breakthrough time (maximum wearing time): _____ min.

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Use protective skin cream before handling the product.

Skin protection

Wear anti-static footwear and clothing Suitable material: Natural fibres (e.g. cotton) / heat-resistant synthetic fibres.

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values.

Use suitable breathing apparatus.

Environmental exposure controls

Do not allow to enter into surface water or drains.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	red
Odour:	characteristic

Test method

Changes in the physical state

Boiling point or initial boiling point and boiling range:	128 °C
Flash point:	38 °C DIN 53213
Lower explosion limits:	1,2 vol. %
Upper explosion limits:	10,6 vol. %
Auto-ignition temperature:	315 °C
Flow time: (at 20 °C)	67
Vapour pressure: (at 20 °C)	13 hPa
Vapour pressure: (at 50 °C)	41 hPa
Density (at 20 °C):	1,2 g/cm³ DIN 53217

9.2. Other information

Solvent separation test:	<3 % (Land transport (ADR/RID))
Solvent content:	38,03 %
Solid content:	61,97 %

Further Information

SECTION 10: Stability and reactivity

10.2. Chemical stability

The product is stable under storage at normal ambient temperatures.

10.3. Possibility of hazardous reactions

Exothermic reaction with: Oxidizing agent, Strong acid, Strong alkali

10.4. Conditions to avoid

May form hazardous decomposition products when exposed to high temperatures.

10.6. Hazardous decomposition products

Nitrogen oxides (NOx), carbon black, Carbon dioxide (CO2), Carbon monoxide

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SECTION 11: Toxicological information

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

Acute toxicity

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
108-65-6	2-methoxy-1-methylethyl acetate				
	oral	LD50 mg/kg	6190 Rat		
	dermal	LD50 mg/kg	>5000 Rat		
6535-46-2	C.I. Pigment Red 112				
	oral	LD50 mg/kg	>5000 Rat		
	dermal	LD50 mg/kg	>5000 Rat		
64742-95-6	Solvent naphtha (petroleum), light aromatic, benzene content < 0,1%				
	oral	LD50 mg/kg	3592 Rat		
	dermal	LD50 mg/kg	>3160 Rabbit		
123-86-4	n-butyl acetate				
	oral	LD50 mg/kg	10760 Ratte		
	dermal	LD50 mg/kg	14112 Kaninchen		OECD 402
	inhalation (4 h) vapour	LC50	>21 mg/l Ratte		OECD 403
	Hydrocarbons, C9, aromatics				
	oral	LD50 mg/kg	>2000 Ratte		
	dermal	LD50 mg/kg	>2000 Kaninchen		
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate				
	oral	LD50 mg/kg	>3000 Rat		
	dermal	LD50 mg/kg	>3000 Rat		
85711-46-2	Fatty acids, C14-18 and C16-18-unsaturated, maleated				
	oral	LD50 mg/kg	>2000 Rat		
135-61-5	C.I. Azoic Coupl. Comp. 18				
	oral	LD50 mg/kg	>5000 Rat		

Irritation and corrosivity

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

Sensitising effects

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May cause an allergic skin reaction. (Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate; Fatty acids, C14-18 and C16-18-unsaturated, maleated; C.I. Azoic Coupl. Comp. 18)

Carcinogenic/mutagenic/toxic effects for reproduction

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

STOT-single exposure

May cause drowsiness or dizziness. (2-methoxy-1-methylethyl acetate)

STOT-repeated exposure

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

Aspiration hazard

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

Practical experience

Following inhalation:

Adverse human health effects and symptoms: May cause respiratory irritation. May cause damage to liver if inhaled. May cause damage to kidneys if inhaled. Depression of central nervous system.

Symptoms: Headache, Dizziness, Drowsiness, Unconsciousness

After eye contact:

Irritating to eyes. (reversible.)

After ingestion:

Symptoms: Nausea, Vomiting, Gastrointestinal complaints

Following skin contact:

May be absorbed through the skin. Frequently or prolonged contact with skin may cause dermal irritation. Has degreasing effect on the skin.

Further information

There are no data available on the mixture itself.

Classification according to Regulation (EC) No 1272/2008 [CLP]

Reference to other sections: 2, 3

SECTION 12: Ecological information

12.1. Toxicity

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
108-65-6	2-methoxy-1-methylethyl acetate					
	Acute fish toxicity	LC50 134 mg/l	96 h	Oncorhynchus mykiss		
	Acute algae toxicity	ErC50 >1000 mg/l	72 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 >500 mg/l	48 h	Daphnia magna		
	Fish toxicity	NOEC 47,5 mg/l	14 d	Oryzias latipes (Ricefish)		OECD 202
	Crustacea toxicity	NOEC >100 mg/l	21 d	Daphnia magna		OECD 211
6535-46-2	C.I. Pigment Red 112					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Oryzias latipes (Ricefish)		OECD 203
	Acute crustacea toxicity	EC50 >100 mg/l	48 h			OECD 202
64742-95-6	Solvent naphtha (petroleum), light aromatic, benzene content < 0,1%					
	Acute fish toxicity	LC50 8,2 mg/l	96 h	Pimephales promelas		
	Acute algae toxicity	ErC50 3,1 mg/l	72 h	Pseudokirchnerella subcapitata		
	Acute crustacea toxicity	EC50 4,5 mg/l	48 h	Daphnia magna		
123-86-4	n-butyl acetate					
	Acute fish toxicity	LC50 18 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 675 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 44 mg/l	48 h	Daphnia magna		
	Algae toxicity	NOEC 200 mg/l	3 d	Desmodesmus subspicatus		
	Crustacea toxicity	NOEC 23 mg/l	21 d	Daphnia magna		OECD 211
	Hydrocarbons, C9, aromatics					
	Acute fish toxicity	LL50 9,2 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute crustacea toxicity	EL50 3,2 mg/l	48 h	Daphnia magna (Big water flea)		
1065336-91-5	Reaction mass of bis(1,2,2,6,6-pentamethyl-4-piperidyl) sebacate and methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate					
	Acute fish toxicity	LC50 0,9 mg/l	96 h	Brachydanio rerio (zebra-fish)		
85711-46-2	Fatty acids, C14-18 and C16-18-unsaturated, maleated					
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Pseudokirchnerella subcapitata		
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna		
135-61-5	C.I. Azoic Coupl. Comp. 18					
	Acute fish toxicity	LC50 1,33-3,25 mg/l	96 h	Danio rerio		OECD 203
	Acute algae toxicity	ErC50 >0,711 mg/l	72 h	Desmodesmus subspicatus		

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	Acute crustacea toxicity	EC50 mg/l	>0,108	48 h			OECD 202
	Acute bacteria toxicity	(EC50 mg/l)	>1000	3 h	Activated sludge		

12.2. Persistence and degradability

CAS No	Chemical name	Method	Value	d	Source
	Evaluation				
108-65-6	2-methoxy-1-methylethyl acetate	OECD 302B	100%	28	
64742-95-6	Solvent naphtha (petroleum), light aromatic, benzene content < 0,1%	OECD Guideline 301 F (Manometric Respirometry Test)	77,05%	28	
	readily biodegradable				
123-86-4	n-butyl acetate	OECD 301D	80%	5	
	Readily biodegradable (according to OECD criteria).				
135-61-5	C.I. Azoic Coupl. Comp. 18	OECD 301B	12%	28	

12.3. Bioaccumulative potential
Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
123-86-4	n-butyl acetate	2,3

BCF

CAS No	Chemical name	BCF	Species	Source
108-65-6	2-methoxy-1-methylethyl acetate	<100		
123-86-4	n-butyl acetate	15,3		

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Endocrine disrupting properties

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

Further information

There are no data available on the mixture itself.

Do not allow to enter into surface water or drains.

SECTION 13: Disposal considerations
13.1. Waste treatment methods
Disposal recommendations

Do not allow to enter into surface water or drains.

Recycle according to official regulations. The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

Contaminated packaging

Completely emptied packages can be recycled.

Recycle according to official regulations.

SECTION 14: Transport information

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Land transport (ADR/RID)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Classification code: F1

Special Provisions: 163 367 650

Limited quantity: 5 L

Excepted quantity: E1

Transport category: 3

Hazard No: 30

Tunnel restriction code: D/E

Marine transport (IMDG)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: 163, 223, 367, 955

Limited quantity: 5 L

Excepted quantity: E1

EmS: F-E, S-E

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number: UN 1263

14.2. UN proper shipping name: PAINT

14.3. Transport hazard class(es): 3

14.4. Packing group: III

Hazard label: 3



Special Provisions: A3 A72 A192

Limited quantity Passenger: 10 L

Passenger LQ: Y344

Excepted quantity: E1

IATA-packing instructions - Passenger: 355

IATA-max. quantity - Passenger: 60 L

IATA-packing instructions - Cargo: 366

IATA-max. quantity - Cargo: 220 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: Yes



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Danger releasing substance: C.I. Azoic Coupl. Comp. 18

14.7. Maritime transport in bulk according to IMO instruments

not applicable

SECTION 15: Regulatory information

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

EU regulatory information

Restrictions on use (REACH, annex XVII):

Entry 3, Entry 28, Entry 40

2010/75/EU (VOC): 38,033 % (456,396 g/l)

Information according to 2012/18/EU (SEVESO III): P5c FLAMMABLE LIQUIDS

Additional information: E2

National regulatory information

Water hazard class (D): 2 - obviously hazardous to water

Additional information

Observe in addition any national regulations!

SECTION 16: Other information

Changes

This data sheet contains changes from the previous version in section(s): 1,2,9,14,15.

Abbreviations and acronyms

ADR - Accord européen relatif transport des marchandises dangereuses par route ATE - Acute Toxicity Estimate / Schätzwert akuter Toxizität; BCF - Biokonzentrationsfaktor (Bio-Concentration Factor); CAS - Chemical Abstracts Service; CLP - Regulation on Classification, Labelling and Packaging of Substances and Mixtures; CMR - Carcinogenität, Mutagenität, Reproduktionstoxizität; ECHA - European Chemicals Agency / Europäische Chemikalienagentur (in Helsinki); EC50 - Effective Concentration 50%; ErC50 - Average specific growth rate; EINECS - European Inventory of Existing Commercial Chemical Substances; DNEL - „Derived No-Effect Level“; IATA - International Air Transport Association; IMDG - International Maritime Dangerous Goods Code; LC50 - Lethal Concentration 50%; LD50 - Lethal dose 50%; NOAEC/L - No Observed Adverse Effect Concentration / Level; NOEC - No Observed Effect Concentration; OECD - Organization for Economic Cooperation and Development; PBT - Persistent, Bioaccumulative, Toxic (persistent, bioakkumulativ, toxisch); PNEC - Predicted No Effect Concentration; REACH - Registration, Evaluation and Authorization of Chemicals; RID - Règlement International concernant le transport de marchandises dangereuses par chemin de fer; SCL - Specific Concentration Level; STOT - Specific Target Organ Toxicity; SVHC - Stoff sehr hoher Besorgnis (Substance of Very High Concern); VOC - Volatile Organic Compounds; WGK - Wassergefährdungsklasse

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Sens. 1; H317	Calculation method
STOT SE 3; H336	Calculation method
Aquatic Chronic 2; H411	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.

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H361	Suspected of damaging fertility or the unborn child.
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.

Further Information

The information is based on the present level of our knowledge. It does not, however, give assurance of product properties and establishes no contract legal rights. The receiver of our product is singularly responsible for adhering to existing laws and regulations.

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)