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

1.1. Product identifier

Superplast Topcoat 6D973, RAL7035

Product group:	Produkt
UFI:	0P2A-G8A0-H8HE-HRVP

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:

+49 4795 95899 0

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 3; H412

Full text of hazard statements: see SECTION 16.

2.2. Label elements

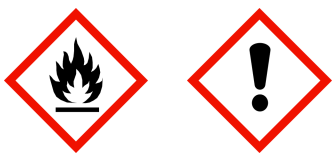
Regulation (EC) No 1272/2008

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-unsatured, maleated
maleic anhydride

Signal word: Warning

Pictograms:



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.

Precautionary statements

P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261	Avoid breathing dust/fume/gas/mist/vapours/spray.
P280	Wear protective gloves/protective clothing/eye protection/face protection/hearing protection.
P333+P313	If skin irritation or rash occurs: Get medical advice/attention.
P362+P364	Take off contaminated clothing and wash it before reuse.
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			10 - < 15 %
	203-603-9	607-195-00-7	01-2119475791-29	
	Flam. Liq. 3, STOT SE 3; H226 H336			
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			1 - < 5 %
	918-668-5		01-2119455851-35	
	Flam. Liq. 3, STOT SE 3, STOT SE 3, Asp. Tox. 1, Aquatic Chronic 2; H226 H335 H336 H304 H411 EUH066			
	reaction mass of ethylbenzene and xylene			1 - < 5 %
	905-588-0		01-2119488216-32	
	Flam. Liq. 3, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, STOT RE 2, Asp. Tox. 1, Aquatic Chronic 3; H226 H332 H312 H315 H319 H335 H373 H304 H412			
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-unsatured, maleated			< 1 %
	288-306-2		01-2119976378-19	
	Skin Irrit. 2, Skin Sens. 1; H315 H317			
108-31-6	maleic anhydride			< 0.1 %
	203-571-6	607-096-00-9		
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Resp. Sens. 1, Skin Sens. 1A, STOT RE 1; H302 H314 H318 H334 H317 H372 EUH071			

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

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	10 - < 15 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = 6190 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		
	905-588-0	reaction mass of ethylbenzene and xylene	1 - < 5 %
	inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); dermal: ATE = 1100 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-unsatured, maleated	< 1 %
	oral: LD50 = >2000 mg/kg		
108-31-6	203-571-6	maleic anhydride	< 0.1 %
	inhalation: LC50 = >4,35 mg/l (vapours); dermal: LD50 = 2620 mg/kg; oral: LD50 = 1090 mg/kg Skin Sens. 1A; H317: >= 0,001 - 100		

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

In all cases of doubt, or when symptoms persist, seek medical advice.
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.
In case of irregular breathing or respiratory arrest provide artificial respiration.

After contact with skin

Change contaminated clothing.
After contact with skin, wash immediately with plenty of water and soap.
Do not wash with: Solvent/Thinner. In case of skin reactions, consult a physician.

After contact with eyes

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do.
Continue rinsing. Seek medical advice immediately.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious).
Call a physician immediately.
Put victim at rest, cover with a blanket and keep warm.
Do NOT induce vomiting.

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

First Aid, decontamination, treatment of symptoms.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

alcohol resistant foam. Carbon dioxide. Powder. Water fog.

Unsuitable extinguishing media

High power water jet.

5.2. Special hazards arising from the substance or mixture

Burning produces heavy smoke.
Hazardous decomposition products: Danger of serious damage to health by prolonged exposure.
Use appropriate respiratory protection.

5.3. Advice for firefighters

Use water spray jet to protect personnel and to cool endangered containers.
Do not allow water used to extinguish fire to enter drains or waterways.

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.
See protective measures under point 7 and 8.

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 containers for disposal.
Clean with detergents. Avoid solvent cleaners.

6.4. Reference to other sections

Safe handling: see section 7
Personal protection equipment: see section 8
Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

In use, may form flammable/explosive vapour-air mixture.
Only use the material in places where open light, fire and other flammable sources can be kept away.
Use explosion-proof machinery, apparatus, ventilation facilities, tools etc. Provide earthing of containers, equipment, pumps and ventilation facilities. Use non-sparking tools.
Wear antistatic work clothing.

Avoid contact with skin, eyes and clothes. Avoid breathing dust/fume/gas/mist/vapours/spray. When using do not eat, drink or smoke. Wear personal protection equipment.

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

Do not allow to enter into surface water or drains. Avoid release to the environment.

Advice on protection against fire and explosion

Vapours are heavier than air and will spread at floor level.
Vapours may form explosive mixtures with air.

Advice on general occupational hygiene

Use only in well-ventilated areas.
When using do not eat, drink, smoke, sniff.
Take off contaminated clothing and wash it before reuse.
Wash hands and face before breaks and after work and take a shower if necessary.

7.2. Conditions for safe storage, including any incompatibilities

Hints on joint storage

Do not store together with: Oxidizing agents. Strong acid, strong alkalis

Further information on storage conditions

Notice the directions for use on the label.
Keep container tightly closed and in a well-ventilated place. Keep container dry.
Keep away from sources of ignition - No smoking. Protect against direct sunlight.
Access is only to be granted to authorised personal.
Always close containers tightly after the removal of product.

7.3. Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits

CAS No	Substance	ppm	mg/m³	fib/cm³	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)	
		200	950		STEL (15 min)	
-	Dust non-specific, total inhalable	-	10		TWA (8 h)	
108-31-6	Maleic anhydride (Inhalable Fraction and Vapour)	0.1	-		TWA (8 h)	
-	Silica, amorphous, respirable dust	-	2.4		TWA (8 h)	
13463-67-7	Titanium dioxide, total inhalable dust	-	10		TWA (8 h)	
1330-20-7	Xylene, mixed isomers	50	221		TWA (8 h)	
		100	442		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
13463-67-7	Titanium dioxide			
Worker DNEL, long-term		inhalation	local	10 mg/m³
Consumer DNEL, long-term		oral	systemic	700 mg/kg bw/day
108-65-6	2-methoxy-1-methylethyl acetate			
Worker DNEL, long-term		inhalation	systemic	275 mg/m³
Worker DNEL, long-term		dermal	systemic	796 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	33 mg/m³
Consumer DNEL, long-term		inhalation	local	33 mg/m³
Consumer DNEL, long-term		dermal	systemic	320 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	36 mg/kg bw/day
Worker DNEL, acute		inhalation	local	550 mg/m³
7727-43-7	barium sulfate			
Worker DNEL, long-term		inhalation	systemic	10 mg/m³
Worker DNEL, long-term		inhalation	local	10 mg/m³
Consumer DNEL, long-term		inhalation	systemic	10 mg/m³
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/m³
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/m³
123-86-4	n-butyl acetate			
Worker DNEL, acute		inhalation	systemic	600 mg/m³
Worker DNEL, acute		inhalation	local	600 mg/m³
Worker DNEL, long-term		inhalation	systemic	300 mg/m³
Worker DNEL, long-term		inhalation	local	300 mg/m³
Consumer DNEL, acute		inhalation	systemic	300 mg/m³
Consumer DNEL, acute		inhalation	local	300 mg/m³
Consumer DNEL, long-term		inhalation	systemic	35,7 mg/m³
Consumer DNEL, long-term		inhalation	local	35,7 mg/m³
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
	Hydrocarbons, C9, aromatics			
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day

Worker DNEL, long-term	inhalation	systemic	150 mg/m³
Consumer DNEL, long-term	oral	systemic	11 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	32 mg/m³
	reaction mass of ethylbenzene and xylene		
Consumer DNEL, long-term	inhalation	local	65,3 mg/m³
Consumer DNEL, long-term	inhalation	systemic	65,3 mg/m³
Consumer DNEL, acute	inhalation	systemic	260 mg/m³
Consumer DNEL, long-term	dermal	systemic	125 mg/kg bw/day
Consumer DNEL, long-term	oral	systemic	5 mg/kg bw/day
Worker DNEL, long-term	inhalation	local	221 mg/m³
Worker DNEL, long-term	inhalation	systemic	221 mg/m³
Worker DNEL, acute	inhalation	local	442 mg/m³
Worker DNEL, long-term	dermal	systemic	212 mg/kg bw/day
Worker DNEL, acute	inhalation	systemic	442 mg/m³
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/m³
Worker DNEL, long-term	inhalation	systemic	1,27 mg/m³
108-31-6	maleic anhydride		
Worker DNEL, long-term	inhalation	systemic	0,4 mg/m³
Worker DNEL, acute	inhalation	systemic	0,8 mg/m³
Worker DNEL, long-term	inhalation	local	0,4 mg/m³
Worker DNEL, acute	inhalation	local	0,8 mg/m³

PNEC values

CAS No	Substance	
Environmental compartment		Value
13463-67-7	Titanium dioxide	
Freshwater		0,184 mg/l
Freshwater (intermittent releases)		0,193 mg/l
Marine water		0,0184 mg/l
Freshwater sediment		100 mg/kg
Marine sediment		100 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		100 mg/kg
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
Micro-organisms in sewage treatment plants (STP)		100 mg/l
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
	reaction mass of ethylbenzene and xylene	
Freshwater		0,044 mg/l
Freshwater (intermittent releases)		0,01 mg/l
Marine water		0,004 mg/l
Freshwater sediment		2,52 mg/kg
Marine sediment		0,252 mg/kg
Micro-organisms in sewage treatment plants (STP)		1,6 mg/l
Soil		0,852 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

108-31-6	maleic anhydride
Freshwater	0,1 mg/l
Marine water	0,01 mg/l
Freshwater sediment	0,334 mg/kg
Marine sediment	0,033 mg/kg
Micro-organisms in sewage treatment plants (STP)	44,6 mg/l
Soil	0,0415 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/face protection.

Hand protection

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. @0802.B08053, Breakthrough times and swelling properties of the material must be taken into consideration.
Suitable material: EN ISO 374
butyl rubber or Viton (necessarily consider the permanence of the material and See information supplied by the manufacturer.)
In case of prolonged or frequently repeated skin contact:
penetration time (maximum wearing period):>480 min

Protective gloves have to be replaced at the first sign of deterioration.
Protect skin by using skin protective cream.

Skin protection

Wear antistatic work clothing. (Natural fibres (e.g. cotton)/ heat-resistant synthetic fibres)

Respiratory protection

Respiratory protection necessary at: exceeding exposure limit values. Use appropriate respiratory protection.

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:	grey
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:	7,5 vol. %	
Auto-ignition temperature:	315 °C	
Flow time: (at 20 °C)	67	6 DIN EN ISO 2431
Vapour pressure: (at 20 °C)	13 hPa	
Vapour pressure: (at 50 °C)	41 hPa	
Density (at 20 °C):	1,35 g/cm³	DIN 53217

9.2. Other information

Solvent separation test:	<3 % (ADR/RID)
Solvent content:	30,37 %, water: 0,02 %
Solid content:	69,62 %

Further Information

SECTION 10: Stability and reactivity

10.3. Possibility of hazardous reactions

Exothermic reactions with: Oxidizing agents. Strong acid, strong alkalis

10.4. Conditions to avoid

In case of warming: Thermal decomposition.

10.6. Hazardous decomposition products

Carbon monoxide Carbon dioxide. Nitrogen oxides (NOx).

SECTION 11: Toxicological information

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

Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
108-65-6	2-methoxy-1-methylethyl acetate				
	oral	LD50 6190 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rat		
64742-95-6	Solvent naphtha (petroleum), light aromatic, benzene content < 0,1%				
	oral	LD50 3592 mg/kg	Rat		
	dermal	LD50 >3160 mg/kg	Rabbit		
123-86-4	n-butyl acetate				
	oral	LD50 10760 mg/kg	Ratte		
	dermal	LD50 14112 mg/kg	Kaninchen		OECD 402
	inhalation (4 h) vapour	LC50 >21 mg/l	Ratte		OECD 403
	Hydrocarbons, C9, aromatics				
	oral	LD50 >2000 mg/kg	Ratte		
	dermal	LD50 >2000 mg/kg	Kaninchen		
	reaction mass of ethylbenzene and xylene				
	oral	LD50 >2000 mg/kg			
	dermal	ATE 1100 mg/kg			
	inhalation vapour	ATE 11 mg/l			
	inhalation dust/mist	ATE 1,5 mg/l			
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 >3000 mg/kg	Rat		
	dermal	LD50 >3000 mg/kg	Rat		
85711-46-2	Fatty acids, C14-18 and C16-18-unsatured, maleated				
	oral	LD50 >2000 mg/kg	Rat		
108-31-6	maleic anhydride				
	oral	LD50 1090 mg/kg	Rat	GESTIS	
	dermal	LD50 2620 mg/kg	Rabbit	GESTIS	
	inhalation (1 h) vapour	LC50 >4,35 mg/l	Rat		

Practical experience

Following inhalation:

May cause respiratory irritation. Potential hazards: Liver and kidney damage. Depression of the central nervous

system. Symptoms: Headache. Dizziness. Causes drowsiness or dizziness. unconsciousness.

After skin contact:
The product is skin resorptive. Prolonged/repetitive skin contact may cause skin defattening or dermatitis.

Following eye contact:
Irritating to eyes. (reversible.)

after ingestion:
Nausea. vomiting. gastro-intestinal ailment.

Further information

There are no data available on the preparation/mixture itself.
The classification was carried out according to the calculation method of the Preparations Directive (1999/45/EC).

SECTION 12: Ecological information

12.1. Toxicity

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 mg/l	>1000	72 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50	408 mg/l	48 h	Daphnia magna		
	Fish toxicity	NOEC mg/l	47,5	14 d	Oryzias latipes (Ricefish)		OECD 202
	Crustacea toxicity	NOEC mg/l	>100	21 d	Daphnia magna		OECD 211
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)		
	reaction mass of ethylbenzene and xylene						
	Acute fish toxicity	LC50	2,6 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout) Ceriodaphnia spec		
	Acute algae toxicity	ErC50	4,7 mg/l	72 h	Selenastrum capricornutum		
	Crustacea toxicity	NOEC mg/l	0,44	21 d	Pseudokirchneriella subcapitata		
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-unsatured, maleated						
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Pseudokirchnerella subcapitata		
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna		
108-31-6	maleic anhydride						
	Acute fish toxicity	LC50	75 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		

	Acute algae toxicity	ErC50 mg/l	74,32	72 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 mg/l	42,81	48 h	Daphnia magna (Big water flea)		
	Crustacea toxicity	NOEC	10 mg/l	21 d	Daphnia magna (Big water flea)		

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 RespirometryTest)	77,05%	28	
	readily biodegradable			
123-86-4	n-butyl acetate			
	OECD 301D	80%	5	
	Readily biodegradable (according to OECD criteria).			

12.3. Bioaccumulative potential

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
123-86-4	n-butyl acetate	2,3
	reaction mass of ethylbenzene and xylene	3,16

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		
	reaction mass of ethylbenzene and xylene	25,9		

12.4. Mobility in soil

No information available.

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.

12.7. Other adverse effects

No information available.

Further information

There are no data available on the preparation/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.

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

List of Wastes Code - residues/unused products

080111 WASTES FROM THE MANUFACTURE, FORMULATION, SUPPLY AND USE (MFSU) OF COATINGS (PAINTS, VARNISHES AND VITREOUS ENAMELS), ADHESIVES, SEALANTS AND PRINTING INKS; wastes from MFSU and removal of paint and varnish; waste paint and varnish containing organic solvents or other hazardous substances; hazardous waste

Contaminated packaging

Completely emptied packages can be recycled.
Remove according to the regulations.

SECTION 14: Transport information

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 640E 650
Limited quantity:	5 L
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

Other applicable information (land transport)

E1

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, 955
Limited quantity:	5 L
EmS:	F-E, S-E

Other applicable information (marine transport)

E1

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	
Limited quantity Passenger:	10 L	
IATA-packing instructions - Passenger:		355
IATA-max. quantity - Passenger:		60 L
IATA-packing instructions - Cargo:		366
IATA-max. quantity - Cargo:		220 L

Other applicable information (air transport)

E1

: Y344

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.7. Maritime transport in bulk according to IMO instruments

not applicable

Other applicable information

IMDG Code
Viskose Stoffe in Verpackung bis zu 30 Liter: Transport in accordance with the provisions of paragraph 2.3.2.5 of the IMDG Code

ADR/RID
Viskose Stoffe in Verpackung bis zu 450 Liter: Kein Gut der Klasse 3 gemäß ADR/RID Kapitel 2.2.3.1.5
Bei Gebinden > 450 l Klasse 3

ICAO/IATA
Viskose Stoffe: Die Viskositätsklausel gilt nicht für den Luftverkehr.

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, Entry 75

2010/75/EU (VOC):	30,369 % (409,983 g/l)
Information according to 2012/18/EU (SEVESO III):	P5c FLAMMABLE LIQUIDS

National regulatory information

Employment restrictions:	Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
Water hazard class (D):	2 - obviously hazardous to water

SECTION 16: Other information

Changes

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

Abbreviations and acronyms

ADR - Accord européen relatif transport des merchandises 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 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H226	Flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H312	Harmful in contact with skin.
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.
H361	Suspected of damaging fertility or the unborn child.
H372	Causes damage to organs through prolonged or repeated exposure.
H373	May cause 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.
H412	Harmful to aquatic life with long lasting effects.
EUH066	Repeated exposure may cause skin dryness or cracking.
EUH071	Corrosive to the respiratory tract.

Further Information

The above information describes exclusively the safety requirements of the product and is based on our present-day knowledge. The information is intended to give you advice about the safe handling of the product named in this safety data sheet, for storage, processing, transport and disposal. The information cannot be transferred to other products. In the case of mixing the product with other products or in the case of processing, the information on this safety data sheet is not necessarily valid for the new made-up material.

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