

# Safety Data Sheet

according to Regulation (EC) No 1907/2006



## Superplast Topcoat 6D973, RAL9018

Revision date: 13.04.2018

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

#### 1.1. Product identifier

Superplast Topcoat 6D973, RAL9018

Product group: Produkt

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

##### Use of the substance/mixture

pigmented topcoat

#### 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	Telefax: 04795-95899-170
e-mail:	info@bergolin.de	
Contact person:	M. Gloede	Telephone: +49 541 93701-22
e-mail:	sdb@bergolin.de	
Internet:	www.bergolin.de	
Responsible Department:	Sicherheitsdatenblattverwaltung	

#### 1.4. Emergency telephone

+49 4795 95899 0

##### number:

Only available during office hours. ( 8-16 CET )

### SECTION 2: Hazards identification

#### 2.1. Classification of the substance or mixture

##### Regulation (EC) No. 1272/2008

Hazard categories:

Flammable liquid: Flam. Liq. 3

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable liquid and vapour.

Harmful to aquatic life with long lasting effects.

#### 2.2. Label elements

##### Regulation (EC) No. 1272/2008

Signal word: Warning

Pictograms:



##### Hazard statements

H226 Flammable liquid and vapour.

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.
P233	Keep container tightly closed.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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### Special labelling of certain mixtures

EUH208

Contains Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Fatty acids, C14-18 and C16-18-unsaturated, maleated, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

## 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	
	GHS Classification			
108-65-6	2-methoxy-1-methylethyl acetate			15 - < 20 %
	203-603-9	607-195-00-7		
	Flam. Liq. 3; H226			
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			
64742-95-6	Solvent naphtha (petroleum), light aromomatic			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			
41556-26-7	Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate			< 1 %
	255-437-1			
	Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; 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			
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate			< 1 %
	280-060-4			
	Skin Sens. 1, Aquatic Acute 1 (M-Factor = 1), Aquatic Chronic 1; H317 H400 H410			

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

## 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.

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In case of irregular breathing or respiratory arrest provide artificial respiration.

### After contact with skin

Change contaminated clothing.  
Wash with plenty of water/?.  
Do not wash with: Solvent/Thinner.

### 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.

## 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

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.  
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

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.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Avoid release to the environment. 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.

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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.

### 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.

### 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.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

#### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
108-65-6	1-Methoxypropyl acetate	50	274		TWA (8 h)	WEL
		100	548		STEL (15 min)	WEL
7727-43-7	Barium sulphate, inhalable dust	-	10		TWA (8 h)	WEL
123-86-4	Butyl acetate	150	724		TWA (8 h)	WEL
		200	966		STEL (15 min)	WEL
13463-67-7	Titanium dioxide, respirable	-	4		TWA (8 h)	WEL

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### 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		dermal	systemic	153,5 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	275 mg/m³
Consumer DNEL, long-term		dermal	systemic	54,8 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	33 mg/m³
Consumer DNEL, long-term		oral	systemic	1,67 mg/kg bw/day
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
64742-95-6	Solvent naphtha (petroleum), light aromatic			
Worker DNEL, long-term		dermal	systemic	25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	150 mg/m³

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Consumer DNEL, long-term	oral	systemic	11 mg/kg bw/day
Consumer DNEL, long-term	inhalation	systemic	32 mg/m <sup>3</sup>

### PNEC values

CAS No	Substance	
Environmental compartment		Value
108-65-6	2-methoxy-1-methylethyl acetate	
Freshwater		0,635 mg/l
Marine water		0,0635 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

### 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.

#### Eye/face protection

Wear eye/face protection.

#### Hand protection

Suitable material: 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): \_\_\_\_

See information supplied by the manufacturer.

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.

#### Environmental exposure controls

Do not allow to enter into surface water or drains.

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### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	white
Odour:	characteristic

#### Test method

#### Changes in the physical state

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. %
Ignition temperature:	315 °C
Vapour pressure: (at 20 °C)	12 hPa
Vapour pressure: (at 50 °C)	21 hPa
Density (at 20 °C):	1,33 g/cm³ DIN 53217
Flow time: (at 20 °C)	73 6 DIN EN ISO 2431
Solvent separation test:	<3 % (ADR/RID)
Solvent content:	32,71 %
<u>9.2. Other information</u>	
Solid content:	67,29 %

### 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 toxicological effects

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### Acute toxicity

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
108-65-6	2-methoxy-1-methylethyl acetate				
	oral	LD50 8532 mg/kg	Rat	RTECS	
	dermal	LD50 7500 mg/kg	Rabbit		
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 13100 mg/kg	Ratte		
	dermal	LD50 17600 mg/kg	Kaninchen		
	inhalation (4 h) vapour	LC50 >21 mg/l	Ratte		
64742-95-6	Solvent naphtha (petroleum), light aromatic				
	oral	LD50 >2000 mg/kg	Ratte		
	dermal	LD50 >2000 mg/kg	Kaninchen		
85711-46-2	Fatty acids, C14-18 and C16-18-unsaturated, maleated				
	oral	LD50 >2000 mg/kg	Rat		

### Practical experience

#### Observations relevant to classification

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 defatting 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



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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 161 mg/l	96 h	Pimephales promelas		
	Acute crustacea toxicity	EC50 408 mg/l	48 h	Daphnia magna		
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		
	Crustacea toxicity	NOEC 23 mg/l	21 d	Daphnia magna		
41556-26-7	Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate					
	Acute fish toxicity	LC50 0,97 mg/l	96 h	Lepomis macrochirus (Bluegill)		OECD 203
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		
82919-37-7	methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate					
	Acute fish toxicity	LC50 0,9 mg/l	96 h	Brachydanio rerio (zebra-fish)		OECD 203

### 12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
64742-95-6	Solvent naphtha (petroleum), light aromatic, benzene content < 0,1%			
	OECD Guideline 301 F (Manometric Respirometry Test)	77,05%	28	
	readily biodegradable			

### 12.3. Bioaccumulative potential

#### Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
108-65-6	2-methoxy-1-methylethyl acetate	0,43

#### 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

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### Disposal recommendations

Do not allow to enter into surface water or drains.  
Remove according to the regulations.

### 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:** 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:** 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:** UN 1263

**14.2. UN proper shipping name:** Paint

**14.3. Transport hazard class(es):** 3

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### 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

Passenger-LQ: Y344

### 14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

### 14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

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 28: Solvent naphtha (petroleum), light aromatic, benzene content < 0,1%; Solvent naphtha (petroleum), light aromatic

2010/75/EU (VOC): 32,688 % (434,745 g/l)

2004/42/EC (VOC): 32,716 % (435,129 g/l)

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

#### National regulatory information

Employment restrictions:

Observe restrictions to employment for juvenils 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):

3 - strongly hazardous to water

## SECTION 16: Other information

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### 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
Aquatic Chronic 3; H412	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.
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.
EUH208	Contains Bis (1,2,2,6,6-pentamethyl-4-piperidyl) sebacate, Fatty acids, C14-18 and C16-18-unsaturated, maleated, methyl 1,2,2,6,6-pentamethyl-4-piperidyl sebacate. May produce an allergic reaction.

### 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.)*