

**Safety Data Sheet**

according to UK REACH Regulation

<b>Shine Dryer Plus (German: Glanzrockner Plus)</b>		
Revision date: 09.10.2023	Product code: 3740	Page 1 of 11

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

**1.1. Product identifier**

Shine Dryer Plus (German: Glanzrockner Plus)

UFI: 3HTD-Q2HS-D10V-QF90

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

**Use of the substance/mixture**

drying aid

**Uses advised against**

Reserved for industrial and professional use.

**1.3. Details of the supplier of the safety data sheet**

Company name:	Polytop GmbH	
Street:	Schafweide 2	
Place:	D-63762 Großostheim	
Telephone:	+49 (0) 6026 99577-0	Telefax: +49 (0) 6026 99577-56
e-mail:	info@polytop.de	
Contact person:	Zentrale	
Internet:	www.polytop.de www.polytop-shop.de	
Responsible Department:	Tel. +49 (0) 6026 99577-0 mo-th 08:00 - 16:30 o'clock, fr 08:00 - 14:30 o'clock (research and development)	

**SECTION 2: Hazards identification**

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

**GB CLP Regulation**

Skin Irrit. 2; H315  
Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

**2.2. Label elements**

**GB CLP Regulation**

**Hazard components for labelling**

Siloxane and silicone, {3-[(2-aminoethyl) amino] propyl} methyl, dimethyl-<sup>1</sup> \*  
Acetic acid  
1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)

**Signal word:** Danger

**Pictograms:**



**Hazard statements**

H315 Causes skin irritation.  
H318 Causes serious eye damage.

**Precautionary statements**

P264 Wash hands thoroughly after handling.  
P280 Wear eye protection/face protection.  
P302+P352 IF ON SKIN: Wash with plenty of soap and water.  
P332+P313 If skin irritation occurs: Get medical advice/attention.  
P362+P364 Take off contaminated clothing and wash it before reuse.

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P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
 P310 Immediately call a POISON CENTER/doctor.

**Additional advice on labelling**

Product is classified and labelled in accordance with EC regulations or the corresponding national laws.

**2.3. Other hazards**

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

**SECTION 3: Composition/information on ingredients**

**3.2. Mixtures**

**Hazardous components**

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			5 - < 15 %
	203-961-6	603-096-00-8	01-2119475104-44	
	Eye Irrit. 2; H319			
5131-66-8	3-butoxypropan-2-ol, propylene glycol monobutyl ether			1 - < 5 %
	225-878-4	603-052-00-8	01-2119475527-28	
	Skin Irrit. 2, Eye Irrit. 2; H315 H319			
102782-92-3	Siloxane and silicone, {3-[(2-aminoethyl) amino] propyl} methyl, dimethyl- <sup>1</sup> *			1 - < 5 %
	Skin Corr. 1B; H314			
134737-05-6	Siloxanes and Silicones, di-Me, 3-[3-[(3-cocoamidopropyl)dimethylammonio]-2-hydroxypropoxy]propyl group-terminated, acetates (salts) <sup>1</sup>			1 - < 5 %
	Aquatic Acute 1, Aquatic Chronic 2; H400 H411			
64-19-7	Acetic acid			1 - < 5 %
	200-580-7	607-002-00-6	01-2119475328-30	
	Flam. Liq. 3, Skin Corr. 1A; H226 H314			
1474044-71-7	1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)			1 - < 5 %
	939-685-4		01-2119983493-26	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412			

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		
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	5 - < 15 %
	dermal: LD50 = 4120 mg/kg; oral: LD50 = 5660 mg/kg		
5131-66-8	225-878-4	3-butoxypropan-2-ol, propylene glycol monobutyl ether	1 - < 5 %
	inhalation: LC50 = >3,5 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = >3300 mg/kg		
64-19-7	200-580-7	Acetic acid	1 - < 5 %
	oral: LD50 = 3310 mg/kg Skin Corr. 1A; H314: >= 90 - 100 Skin Corr. 1B; H314: >= 25 - < 90 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25		

**Labelling for contents according to Regulation (EC) No 648/2004**

< 5 % cationic surfactants, perfumes, < 5 % non-ionic surfactants.

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**Further Information**

The surfactant contained in this mixture complies with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents.

**SECTION 4: First aid measures****4.1. Description of first aid measures****General information**

Remove contaminated, saturated clothing immediately.

**After inhalation**

Provide fresh air.

**After contact with skin**

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

After cleaning apply high-fat content skin care cream.

**After contact with eyes**

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

**After ingestion**

Do NOT induce vomiting. Rinse mouth thoroughly with water.

Get immediate medical advice/attention.

Let water be drunk in little sips (dilution effect).

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

No known symptoms to date.

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

Give activated carbon, in order to reduce the resorption in the gastro-enteric tract.

**SECTION 5: Firefighting measures****5.1. Extinguishing media****Suitable extinguishing media**

The product itself does not burn.

Co-ordinate fire-fighting measures to the fire surroundings.

**5.2. Special hazards arising from the substance or mixture**

Vapours may form explosive mixtures with air.

**5.3. Advice for firefighters**

Remove product from area of fire.

**SECTION 6: Accidental release measures****6.1. Personal precautions, protective equipment and emergency procedures****General advice**

Wear personal protection equipment.

Keep away from unprotected people. Keep upwind.

The following must be prevented:

skin contact.

Eye contact.

**6.2. Environmental precautions**

Suitable material for diluting or neutralizing:

Water.

**6.3. Methods and material for containment and cleaning up****Other information**

Methods of cleaning - small amounts of spilled material: Dilute with plenty of water.

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Methods of cleaning - large amounts of spilled material: Take up mechanically, placing in appropriate containers for disposal.

**SECTION 7: Handling and storage**

**7.1. Precautions for safe handling**

**Advice on safe handling**

Keep container tightly closed.  
The following must be prevented:  
skin contact.  
Eye contact.

**Advice on protection against fire and explosion**

Not combustible.

**Advice on general occupational hygiene**

Avoid contact with skin and eyes.  
Take off immediately all contaminated clothing.  
Wash hands before breaks and after work.

**7.2. Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Store only in original container.  
Ensure adequate ventilation of the storage area.

**Hints on joint storage**

No special precautionary measures are necessary.

**Further information on storage conditions**

Recommended storage temperature: up to °C: 30

**7.3. Specific end use(s)**

Automotive cleaning products

**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
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	WEL
		15	101.2		STEL (15 min)	WEL
64-19-7	Acetic acid	10	25		TWA (8 h)	WEL
		20	50		STEL (15 min)	WEL

**8.2. Exposure controls**

**Appropriate engineering controls**

Provide adequate ventilation as well as local exhaust at critical locations.  
Suitable floor material: Acid proof.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Tightly sealed safety glasses.

**Hand protection**

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. 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. Tested protective gloves are to be

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worn:

CR (polychloroprene, chloroprene rubber) (Thickness of the glove material: 0,5mm) | NBR (Nitrile rubber) (Thickness of the glove material: 0,35mm) | FKM (fluoro rubber) (Thickness of the glove material: 0,4mm)

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.

**Skin protection**

Body protection: not required.

**Respiratory protection**

Suitable respiratory protection apparatus: Half-face mask, Filter type: B-P2

**SECTION 9: Physical and chemical properties**

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

Physical state:	liquid	
Colour:	clear dark blue	
Odour:	product-specific	
Melting point/freezing point:		not determined
Boiling point or initial boiling point and boiling range:		105 °C
Flammability:		not applicable not determined
Lower explosion limits:		1,1
Upper explosion limits:		10,6
Flash point:		>70 °C
Decomposition temperature:		not determined
pH-Value (at 20 °C):		3,5 - 5,0
Water solubility:		miscible.
Solubility in other solvents		not determined
Partition coefficient n-octanol/water:		not determined
Vapour pressure:		approx. 23 hPa
(at 20 °C)		
Density (at 20 °C):		0,97 g/cm³
Relative vapour density:		not determined

**9.2. Other information**

**Information with regard to physical hazard classes**

Explosive properties

In use, may form flammable/explosive vapour-air mixture.

Self-ignition temperature

Solid:

not applicable

Gas:

not determined

Oxidizing properties

not oxidizing.

**Other safety characteristics**

Evaporation rate:

not determined

Solvent separation test:

not determined

Solvent content:

6,7 %

Viscosity / dynamic:

not determined

**Further Information**

Not combustible.

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**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

No risks worthy of mention.

**10.2. Chemical stability**

The product is chemically stable under recommended conditions of storage, use and temperature.

**10.3. Possibility of hazardous reactions**

In case of insufficient ventilation and/or through use, explosive/highly flammable mixtures may develop.

**10.4. Conditions to avoid**

No risks worthy of mention.

**10.5. Incompatible materials**

No risks worthy of mention.

**10.6. Hazardous decomposition products**

Thermal decomposition can lead to the escape of irritating gases and vapors.

**SECTION 11: Toxicological information**

**11.1. Information on hazard classes as defined in GB CLP Regulation**

**Acute toxicity**

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

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	oral	LD50 mg/kg	5660	Rat		
	dermal	LD50 mg/kg	4120	Rabbit		
5131-66-8	3-butoxypropan-2-ol, propylene glycol monobutyl ether					
	oral	LD50 mg/kg	>3300	Rat		
	dermal	LD50 mg/kg	>2000	Rat		
	inhalation (4 h) vapour	LC50	>3,5 mg/l	Rat		
64-19-7	Acetic acid					
	oral	LD50 mg/kg	3310	Rat	GESTIS	

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye damage.

**Sensitising effects**

May cause sensitization by skin contact. (LIMONENE)

**Carcinogenic/mutagenic/toxic effects for reproduction**

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

**STOT-single exposure**

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

**STOT-repeated exposure**

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

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**Aspiration hazard**

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

**11.2. Information on other hazards**

**Other information**

Has de-greasing effect on the skin.  
After cleaning apply high-fat content skin care cream.

**SECTION 12: Ecological information**

**12.1. Toxicity**

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	Acute algae toxicity	ErC50 > 100 mg/l		Scenedesmus sp.		
	Acute crustacea toxicity	EC50 > 100 mg/l	48 h	Daphnia magna		
5131-66-8	3-butoxypropan-2-ol, propylene glycol monobutyl ether					
	Acute fish toxicity	LC50 >560-1000 mg/l	96 h	Poecilia reticulata (Guppy),		
	Acute algae toxicity	ErC50 >1000 mg/l	96 h	Pseudokirchneriella subcapitata		
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna (		
	Algae toxicity	NOEC 560 mg/l	4 d	Pseudokirchneriella subcapitata		
	Acute bacteria toxicity	>1000 g O2/g	3 h	Atmungshemmung von kommunalem Belebtschlamm		OECD Test 209
64-19-7	Acetic acid					
	Acute crustacea toxicity	EC50 65 mg/l	48 h	Daphnia magna	Janssen et al	

**12.2. Persistence and degradability**

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

Elimination from water is possible through precipitation or flocculation.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
5131-66-8	3-butoxypropan-2-ol, propylene glycol monobutyl ether			
	OECD Test 301E	90%	28	

**12.3. Bioaccumulative potential**

Does not accumulate in organisms.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	0,56 (25°C)
5131-66-8	3-butoxypropan-2-ol, propylene glycol monobutyl ether	<3
64-19-7	Acetic acid	-0,17

**12.4. Mobility in soil**

No data available

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

The substances in the mixture do not meet the PBT/vPvB criteria according to UK REACH.  
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.  
No data available

**12.7. Other adverse effects**

No risks worthy of mention.

**Further information**

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.  
Chemical Oxygen Demand (COD) [mg O<sub>2</sub>/g Produkt]: 710

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Disposal recommendations**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

**List of Wastes Code - residues/unused products**

200130 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents other than those mentioned in 20 01 29

**List of Wastes Code - contaminated packaging**

150110 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); packaging containing residues of or contaminated by hazardous substances; hazardous waste

**Contaminated packaging**

Water.  
Dispose of waste according to "Kreislaufwirtschafts- und Abfallgesetz (KrW-/AbfG)".  
Consult supplier about waste disposal.  
Cleaned containers may be recycled.

**SECTION 14: Transport information**

**Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Inland waterways transport (ADN)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	No dangerous good in sense of this transport regulation.
<b>14.2. UN proper shipping name:</b>	No dangerous good in sense of this transport regulation.
<b>14.3. Transport hazard class(es):</b>	No dangerous good in sense of this transport regulation.
<b>14.4. Packing group:</b>	No dangerous good in sense of this transport regulation.

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**Air transport (ICAO-TI/IATA-DGR)**

- 14.1. UN number or ID number:** No dangerous good in sense of this transport regulation.
- 14.2. UN proper shipping name:** No dangerous good in sense of this transport regulation.
- 14.3. Transport hazard class(es):** No dangerous good in sense of this transport regulation.
- 14.4. Packing group:** No dangerous good in sense of this transport regulation.

**14.5. Environmental hazards**

ENVIRONMENTALLY HAZARDOUS: No

**14.6. Special precautions for user**

Keep container tightly closed.

**14.7. Maritime transport in bulk according to IMO instruments**

not relevant

**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 40, Entry 55, Entry 75

2004/42/EC (VOC): 14,033 % (136,117 g/l)

**Additional information**

Regulation (EC) No. 648/2004 (Detergents regulation):

Regulation (EC) No. 1005/2009 on substances that lead to the depletion of the ozone layer: not applicable not applicable

This mixture contains the following substances of very high concern (SVHC) which are included in the Candidate List according to Article 59 of REACH: none

This mixture contains the following substances of very high concern (SVHC) which are subject to authorisation according to Annex XIV of REACH: none

**National regulatory information**

Employment restrictions: Observe restrictions to employment for juveniles according to the 'juvenile work protection guideline' (94/33/EC).

Water hazard class (D): 1 - slightly hazardous to water

**15.2. Chemical safety assessment**

For the following substances of this mixture a chemical safety assessment has been carried out:

2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether

3-butoxypropan-2-ol, propylene glycol monobutyl ether

Acetic acid

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)

**SECTION 16: Other information**

**Changes**

This data sheet contains changes from the previous version in section(s): 1,2,3,9,15.

**Abbreviations and acronyms**

2003/15/EG: contains a list of allergenic fragrance substances

648/2004 (EG): Detergents Regulation

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

TLV: Threshold Limiting Value (is a level to which it is believed a worker can be exposed day after day for a working lifetime without adverse effects)

ATEmix: Acute Toxicity Estimates of a mixture

CAS: Chemical Abstracts Service (subdivision of the American Chemical Society)

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CAS no: a unique numerical identifier assigned by Chemical Abstracts Service to every chemical substance (rarely a group of substances), described in the open scientific literature  
 CLP, 1272/2008 (EC): Regulation of the European Parliament on Classification, Labelling and Packaging of Substances and Mixtures. This MSDS is according to EC 2020/878  
 COD: chemical oxygen demand  
 DNEL: Derived No Effect Level  
 EC50: half maximal effective concentration (toxicity value), effect on 50% of the test population  
 EC: European Community  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 EN: European Standards  
 ErC50: median inhibitory concentration of growth rate (algal inhibition test), effect on 50% of the test population  
 EUH-phrase (-Code): precautionary statement (EC-specified, not derived from GHS)  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals (of the United Nations)  
 hPa: Hectopascal (1000 hPa= 1bar)  
 H-phrase (-Code): hazardous statement  
 IATA: International Air Transport Association  
 IBC-Code: The IBC Code provides an international standard for the safe carriage in bulk by sea of dangerous chemicals  
 ICAO: International Civil Aviation Organization  
 IMDG: International Maritime Code for Dangerous Goods  
 ISO: International Organization for Standardization  
 IUCLID: International Uniform Chemical Information Database  
 LC50: median lethal (killing) concentration (toxicity value), effect on 50% of the test population  
 LD50: median lethal (killing) dose, effect on 50% of the test population  
 log Kow: partition-coefficient between octanol and water (measures how hydrophilic or hydrophobic a chemical substance is)  
 MARPOL: Maritime Pollution Convention  
 OECD: Organisation for Economic Co-operation and Development  
 OECD 301 (A-F: methods for determination of biodegradability)  
 PBT: persistent, bioaccumulative and toxic (substances that have high resistance to degradation from abiotic and biotic factors, high mobility in the environment and high toxicity)  
 PNEC: Predicted No Effect Concentration  
 ppm: parts per million, 10000ppm=1%  
 P-phrase (-Code): precautionary statement  
 REACH, 1907/2006 (EC): Registration, Evaluation, Authorisation and Restriction of Chemicals  
 RID: Regulation concerning the Carriage of Dangerous Goods by Rail (STOT RE: Specific Target Organ Toxicity (repeated exposure)  
 STOT SE: Specific Target Organ Toxicity (single exposure)  
 UN: United Nations  
 VOC: Volatile Organic Compounds  
 vPvB: very persistent and very bioaccumulative (s.PBT)

**Classification for mixtures and used evaluation method according to GB CLP Regulation**

Classification	Classification procedure
Skin Irrit. 2; H315	Calculation method
Eye Dam. 1; H318	Calculation method

**Relevant H and EUH statements (number and full text)**

H226	Flammable liquid and vapour.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

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H412 Harmful to aquatic life with long lasting effects.

**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.

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