

**STAMMOPUR RD 5**

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**SECTION 1: Identification of the substance/mixture and of the company/undertaking****1.1. Product identifier**

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UFI: 8M00-Q0KU-P00P-FPU2

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

Cleaning agent. Instrument cleaner for the ultrasonic bath, concentrate.  
Restricted to professional users.

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

Company name: DR.H.STAMM GmbH Chemische Fabrik  
Street: Heinrichstr. 3 – 4  
Place: 12207 Berlin, GERMANY  
Telephone: +49 30 76880-280  
e-mail: info@dr-stamm.de  
Internet: www.dr-stamm.de  
Responsible Department: sdb@dr-stamm.de, Tel.: +49 30 76880-258  
**1.4. Emergency telephone number:** 24-hours-emergency: Giftnotruf Berlin: +49 30 30686700 (german, english)

**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****Regulation (EC) No 1272/2008**

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

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****Regulation (EC) No 1272/2008****Hazard components for labelling**

Sulfonic acids, C14-17-sec-alkane, sodium salts  
Sodium hydroxide; caustic soda

**Signal word:** Danger**Pictograms:****Hazard statements**

H315 Causes skin irritation.  
H318 Causes serious eye damage.

**Precautionary statements**

P280 Wear protective gloves/protective clothing/eye protection/face protection.  
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

**SECTION 3: Composition/information on ingredients****3.2. Mixtures**

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## Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (Regulation (EC) No 1272/2008)			
7732-18-5	Water			60-80 %
	231-791-2			
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			<6,5 %
	200-661-7		01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts			<6,0 %
	307-055-2		01-2119489924-20	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H302 H315 H318 H412			
68920-66-1	C16-C18 Fatty alcohol, ethoxylated			<6,0 %
	-		*	
	Eye Irrit. 2; H319			
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol			<5,0 %
	201-993-5	604-020-00-6	01-2119511183-53	
	Self-heat. 1, Acute Tox. 4, Skin Corr. 1A, Eye Dam. 1, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H251 H302 H314 H318 H335 H400 H410			
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt			<3,0 %
	257-573-7		01-2119493601-38	
	Met. Corr. 1; H290			
1310-73-2	Sodium hydroxide; caustic soda			<2,0 %
	215-185-5	011-002-00-6	01-2119457892-27	
	Skin Corr. 1A; H314			

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	
67-63-0	200-661-7	propan-2-ol; isopropyl alcohol; isopropanol	<6,5 %
		inhalation: LC50 = >20 mg/l (vapours); dermal: LD50 = 13100 mg/kg; oral: LD50 = 5840 mg/kg	
97489-15-1	307-055-2	Sulfonic acids, C14-17-sec-alkane, sodium salts	<6,0 %
		dermal: LD50 = >2000 mg/kg; oral: LD50 = 500-2000 mg/kg	
68920-66-1	-	C16-C18 Fatty alcohol, ethoxylated	<6,0 %
		oral: LD50 = >2000 mg/kg	
90-43-7	201-993-5	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol	<5,0 %
		dermal: LD50 = >5000 mg/kg; oral: LD50 = 591 mg/kg	
51981-21-6	257-573-7	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt	<3,0 %
		oral: LD50 = >5000 mg/kg	
1310-73-2	215-185-5	Sodium hydroxide; caustic soda	<2,0 %
		oral: LD50 = 2000 mg/kg Skin Corr. 1A; H314: >= 5 - 100 Skin Corr. 1B; H314: >= 2 - < 5 Skin Irrit. 2; H315: >= 0,5 - < 2 Eye Irrit. 2; H319: >= 0,5 - < 2	

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

5 % - &lt; 15 % non-ionic surfactants.

## Further Information

\*Polymer

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

Change contaminated clothing.

**After inhalation**

In case of inhaling spray mists, consult a doctor .

**After contact with skin**

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

**After contact with eyes**

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. In case of troubles or persistent symptoms, consult an ophthalmologist.

**After ingestion**

Rinse mouth immediately and drink large quantities of water. Do not induce vomiting. Consult physician.

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

No symptoms known up to now.

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

Treat symptomatically.

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

Water. Foam. Atomized water.

**Unsuitable extinguishing media**

High power water jet.

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

Can be released in case of fire: Nitrogen oxides (NOx). Carbon dioxide (CO2).

**5.3. Advice for firefighters**

Protective clothing.

**Additional information**

Material is not combustible. Extinguishing materials should be selected according to the surrounding area.

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

Wear personal protection equipment.

**6.2. Environmental precautions**

Do not empty into drains or the aquatic environment.

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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

Treat the assimilated material according to the section on waste disposal.

**6.4. Reference to other sections**

See protective measures under point 7 and 8.

**SECTION 7: Handling and storage****7.1. Precautions for safe handling**

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**Advice on safe handling**

No special technical protective measures are necessary.

**Advice on protection against fire and explosion**

Product is not: Oxidizing. Flammable. explosive.

**Advice on general occupational hygiene**

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work.

**7.2. Conditions for safe storage, including any incompatibilities****Requirements for storage rooms and vessels**

Store only in original container. Keep away from food, drink and animal feedingstuffs.

**SECTION 8: Exposure controls/personal protection****8.1. Control parameters****Occupational exposure limits**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
67-63-0	Isopropyl alcohol	200	-		TWA (8 h)	
		400	-		STEL (15 min)	
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	

**Biological limit values**

CAS No	Substance	Parameter	Value	Test material	Sampling time
67-63-0	2-Propanol	Acetone	40 mg/L	Urine	End of shift at end of workweek

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#### DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol			
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	500 mg/m³
Consumer DNEL, long-term		inhalation	systemic	89 mg/m³
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts			
Worker DNEL, acute		dermal	local	2,8 mg/cm²
Worker DNEL, long-term		dermal	systemic	5 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	35 mg/m³
Worker DNEL, long-term		dermal	local	2,8 mg/cm²
Consumer DNEL, acute		dermal	local	2,8 mg/cm²
Consumer DNEL, long-term		dermal	systemic	3,57 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	12,4 mg/m³
Consumer DNEL, long-term		oral	systemic	7,1 mg/kg bw/day
Consumer DNEL, long-term		dermal	local	2,8 mg/cm²
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol			
Worker DNEL, long-term		dermal	systemic	21,84 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	19,25 mg/m³
Consumer DNEL, long-term		oral	systemic	0,4 mg/kg bw/day
1310-73-2	Sodium hydroxide; caustic soda			
Worker DNEL, long-term		inhalation	local	1 mg/m³
Consumer DNEL, long-term		inhalation	local	1 mg/m³

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#### PNEC values

CAS No	Substance	
Environmental compartment		Value
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	
Freshwater		140,9 mg/l
Freshwater (intermittent releases)		140,9 mg/l
Marine water		140,9 mg/l
Freshwater sediment		552 mg/kg
Marine sediment		552 mg/kg
Soil		28 mg/kg
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	
Freshwater		0,04 mg/l
Freshwater (intermittent releases)		0,06 mg/l
Marine water		0,004 mg/l
Freshwater sediment		9,4 mg/kg
Marine sediment		0,94 mg/kg
Soil		9,4 mg/kg
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol	
Freshwater		0,0009 mg/l
Freshwater (intermittent releases)		0,027 mg/l
Marine water		0,00009 mg/l
Freshwater sediment		0,1284 mg/kg
Marine sediment		0,01284 mg/kg
Secondary poisoning		1,87 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,56 mg/l
Soil		2,5 mg/kg

#### 8.2. Exposure controls

##### Appropriate engineering controls

Refer to chapter 7. No further action is necessary.

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

##### Eye/face protection

Wear eye/face protection.

##### Hand protection

Suitable material:

PE (polyethylene). Layer thickness: 0,5 mm penetration time (maximum wearing period):  $\geq 8$ h

CR (polychloroprenes, Chloroprene rubber). 0,5 mm penetration time (maximum wearing period):  $\geq 8$ h

NBR (Nitrile rubber). 0,35 mm penetration time (maximum wearing period):  $\geq 8$ h

Butyl rubber. FKM (Fluoroelastomer (Viton)). 0,5 mm penetration time (maximum wearing period):  $\geq 8$ h

Breakthrough times and swelling characteristics of the material must be taken into consideration.

Recommended protective gloves brand: Camapren 722, Manufacturer: KCL, or comparable makes from other companies.

##### Skin protection

Skin protection: not required.

##### Respiratory protection

Respiratory protection not required.

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## SECTION 9: Physical and chemical properties

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

Physical state:	liquid
Colour:	yellow - light brown
Odour:	characteristic

Melting point/freezing point:	-5 °C	Test method
Boiling point or initial boiling point and boiling range:	>100 °C	
Flash point:	---	
pH-Value (at 20 °C):	13,5 (conc.) 10,9 (1 %)	DGF H-III 1
Water solubility:	complete miscible	
Density (at 20 °C):	1,052 g/cm <sup>3</sup>	DIN 12791

**9.2. Other information****Information with regard to physical hazard classes**

Explosive properties  
not Explosive.

Oxidizing properties  
not oxidizing.

## SECTION 10: Stability and reactivity

**10.1. Reactivity**

None, in case of proper use.

**10.2. Chemical stability**

The product is chemically stable under normal ambient conditions.

**10.3. Possibility of hazardous reactions**

None, in case of proper use.

**10.4. Conditions to avoid**

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

**10.5. Incompatible materials**

acid, concentrated. light metals.

**10.6. Hazardous decomposition products**

None, in case of proper use.

## 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.

**ATEmix calculated**

ATE (oral) 5024,7 mg/kg

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 5840 mg/kg	rat		OECD 401
	dermal	LD50 13100 mg/kg	kan		OECD 402
	inhalation (4 h) vapour	LC50 >20 mg/l	rat		OECD 403
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts				
	oral	LD50 500-2000 mg/kg	rat		OECD 401
	dermal	LD50 >2000 mg/kg	mouse		
68920-66-1	C16-C18 Fatty alcohol, ethoxylated				
	oral	LD50 >2000 mg/kg	Ratte		
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol				
	oral	LD50 591 mg/kg	rat	msds	OECD 401
	dermal	LD50 >5000 mg/kg	rat	msds	OECD 402
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt				
	oral	LD50 >5000 mg/kg	rat		Calculated
1310-73-2	Sodium hydroxide; caustic soda				
	oral	LD50 2000 mg/kg	rat		

**Irritation and corrosivity**

Causes skin irritation.

Causes serious eye damage.

Risk of serious damage to eyes.

Irritant effect on the skin: irritant.

**Sensitising effects**

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

no danger of sensitization.

**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.

**Aspiration hazard**

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

**SECTION 12: Ecological information****12.1. Toxicity**

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



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol					
	Acute fish toxicity	LC50 9640 mg/l	96 h	Pimephales promelas	ECHA	OECD 203
	Acute bacteria toxicity	(EC50 >100 mg/l)				
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts					
	Acute fish toxicity	LC50 8,4 mg/l	96 h	Leuciscus idus		OECD 201
	Acute algae toxicity	ErC50 >61 mg/l	72 h	Desmodesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50 9,81 mg/l	48 h	Daphnia magna		OECD 202
	Fish toxicity	NOEC 0,85 mg/l	28 d	Oncorhynchus mykiss		OECD 204
	Crustacea toxicity	NOEC 0,36 mg/l	22 d	Daphnia magna		OECD 202
68920-66-1	C16-C18 Fatty alcohol, ethoxylated					
	Acute fish toxicity	LC50 30 mg/l	96 h			(CESIO 10/2015 (Env. class.))
	Acute crustacea toxicity	EC50 >1000 mg/l	48 h	Daphnia magna		(CESIO 10/2015 (Env. class.))
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol					
	Acute fish toxicity	LC50 2,6 mg/l	96 h	Oncorhynchus mykiss	msds	OPPTS 850.1075
	Acute algae toxicity	ErC50 3,57 mg/l	72 h	Pseudokirchneriella subcapitata	msds	OECD 201
	Acute crustacea toxicity	EC50 2,7 mg/l	48 h	Daphnia magna	msds	
	Fish toxicity	NOEC 0,036 mg/l	21 d	Pimephales promelas	msds	
	Algae toxicity	NOEC 0,468 mg/l	72 d	Pseudokirchneriella subcapitata	msds	OECD 201
	Crustacea toxicity	NOEC 0,006 mg/l	21 d	Daphnia magna	msds	
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Oncorhynchus mykiss		OECD 203
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Desmodesmus subspicatus	OECD 201	
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnien		OECD 202
1310-73-2	Sodium hydroxide; caustic soda					
	Acute fish toxicity	LC50 125 mg/l	96 h	Gambusia affinis	SDB Lieferant	
	Acute crustacea toxicity	EC50 40,4 mg/l	48 h	Ceriodaphnia	ECHA	

#### 12.2. Persistence and degradability

The surfactants contained in this preparation comply with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

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CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts			
	OECD 301 B	78 %	28	
	leicht biologisch abbaubar			
	OECD 301 E	98 %	28	
	leicht biologisch abbaubar			
	OECD 303 A	96,2 %	34	
	leicht biologisch abbaubar			
68920-66-1	C16-C18 Fatty alcohol, ethoxylated			
	OECD 301D	>70 %	28	
	Leicht biologisch abbaubar			
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol			
	OECD 301 B	70,8 - 75,5 %	28	
	readily biodegradable			
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt			
	OECD 301D	76 %	28	

**12.3. Bioaccumulative potential**

On the basis of existing data about disposal/decomposition and bio-accumulation potential, long term environmental damage is unlikely.

**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol	3,18
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt	-11,95

**BCF**

CAS No	Chemical name	BCF	Species	Source
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol	22,5		

**12.4. Mobility in soil**

No data 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.  
not applicable

**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 data available

**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**

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200129 MUNICIPAL WASTES (HOUSEHOLD WASTE AND SIMILAR COMMERCIAL, INDUSTRIAL AND INSTITUTIONAL WASTES) INCLUDING SEPARATELY COLLECTED FRACTIONS; separately collected fractions (except 15 01); detergents containing hazardous substances; hazardous waste

**List of Wastes Code - used product**

180106 WASTES FROM HUMAN OR ANIMAL HEALTH CARE AND/OR RELATED RESEARCH (EXCEPT KITCHEN AND RESTAURANT WASTES NOT ARISING FROM IMMEDIATE HEALTH CARE); wastes from natal care, diagnosis, treatment or prevention of disease in humans; chemicals consisting of or containing hazardous substances; hazardous waste

**Contaminated packaging**

Completely emptied packings can be re-cycled.

**SECTION 14: Transport information****Other applicable information**

Not a hazardous material with respect to transportation regulations.

**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 75

2004/42/EC (VOC): 6,2 % (65,1 g/l)

**National regulatory information**

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

**15.2. Chemical safety assessment**

Chemical safety assessments for substances in this mixture were not carried out.

**SECTION 16: Other information****Changes**

Data changed from previous versions: 1.1., 1.4., 2.1., 3.2., 7.1., 8.2., 9.1., 9.2., 11.1., 12.1., 12.2., 12.5., 12.6., 12.7., 15.1., 16.

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

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

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

H225 Highly flammable liquid and vapour.  
H251 Self-heating: may catch fire.  
H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H319 Causes serious eye irritation.  
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.  
H412 Harmful to aquatic life with long lasting effects.

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**Further Information**

Training instructions: Notice the directions for use on the label.

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.

**Identified uses**

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	STAMMOPUR RD 5	PW	20	35	8a, 9, 13	8a	0	26	

LCS: Life cycle stages

PC: Product categories

ERC: Environmental release categories

TF: Technical functions

SU: Sectors of use

PROC: Process categories

AC: Article categories

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