

**STAMMOPUR DB**

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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: X600-604V-5006-5YWR

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

disinfectants. Disinfection and cleaning of burs, ready for use.  
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****GB CLP Regulation**

Flam. Liq. 3; H226  
Skin Irrit. 2; H315  
Eye Irrit. 2; H319  
STOT SE 3; H336

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****Hazard components for labelling**

propan-2-ol; isopropyl alcohol; isopropanol

**Signal word:** Warning**Pictograms:****Hazard statements**

H226 Flammable liquid and vapour.  
H315 Causes skin irritation.  
H319 Causes serious eye irritation.  
H336 May cause drowsiness or dizziness.

**Precautionary statements**

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

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## 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)	
7732-18-5	Water	60-70 %
	231-791-2	
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol	30,0 %
	200-661-7	
	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336	
1310-73-2	Sodium hydroxide; caustic soda	<1,0 %
	215-185-5	
	011-002-00-6	
	01-2119457892-27	
	Skin Corr. 1A; H314	
10555-76-7	Sodium Metaborate, Tetrahydrate	<1,0 %
	231-891-6	
	01-2119516444-44	
	Repr. 2, Eye Irrit. 2; H361d H319	
68155-20-4	Alkanolamides	<0,5 %
	-	*
	Repr. 2, Skin Irrit. 2, Eye Dam. 1, STOT RE 2, Aquatic Chronic 2; H361fd H315 H318 H373 H411	
64-02-8	tetrasodium ethylene diamine tetraacetate	<0,5 %
	200-573-9	
	01-2119486762-27	
	Acute Tox. 4, Acute Tox. 4, Eye Dam. 1, STOT RE 2; H332 H302 H318 H373	
7173-51-5	didecyldimethylammonium chloride	0,1 %
	230-525-2	
	01-2119945987-15	
	Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 2; H302 H314 H318 H400 H411	

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	30,0 %
		inhalation: LC50 = >20 mg/l (vapours); dermal: LD50 = 13100 mg/kg; oral: LD50 = 5840 mg/kg	
1310-73-2	215-185-5	Sodium hydroxide; caustic soda	<1,0 %
		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	
10555-76-7	231-891-6	Sodium Metaborate, Tetrahydrate	<1,0 %
		inhalation: LC50 = 2,12 mg/l (vapours); dermal: LD50 = >2000 mg/kg; oral: LD50 = 2330 mg/kg	
68155-20-4	-	Alkanolamides	<0,5 %
		dermal: LD50 = 12200 mg/kg; oral: LD50 = 1600 mg/kg	
64-02-8	200-573-9	tetrasodium ethylene diamine tetraacetate	<0,5 %
		inhalation: ATE = 11 mg/l (vapours); inhalation: ATE = 1,5 mg/l (dusts or mists); oral: LD50 = 1780-2000 mg/kg	
7173-51-5	230-525-2	didecyldimethylammonium chloride	0,1 %
		oral: LD50 = 658 mg/kg	

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**Further Information**

\*Polymer

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

Take off immediately all contaminated clothing.

**After inhalation**

Provide fresh air.

**After contact with skin**

After contact with skin, wash immediately with plenty of Water and soap. In case of skin irritation, seek medical treatment.

**After contact with eyes**

Immediately flush eyes with plenty of flowing water for 10 to 15 minutes holding eyelids apart. 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 data available

**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**

Product is not: Oxidizing.

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.

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**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****Advice on safe handling**

No special technical protective measures are necessary.

**Advice on protection against fire and explosion**

Keep away from sources of ignition - No smoking.

**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****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL

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#### DNEL/DMEL values

CAS No	Substance	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/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	89 mg/m <sup>3</sup>
1310-73-2	Sodium hydroxide; caustic soda			
Worker DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
10555-76-7	Sodium Metaborate, Tetrahydrate			
Worker DNEL, long-term		inhalation	systemic	18,5 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	867,3 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	2,17 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	2,17 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	9,31 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	437,5 mg/kg bw/day
68155-20-4	Alkanolamides			
Worker DNEL, long-term		inhalation	local	1 mg/m <sup>3</sup>
Worker DNEL, long-term		dermal	systemic	0,13 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,06 mg/kg bw/day
Consumer DNEL, long-term		inhalation	local	0,25 mg/m <sup>3</sup>
Consumer DNEL, long-term		dermal	systemic	0,07 mg/kg bw/day
64-02-8	tetrasodium ethylene diamine tetraacetate			
Worker DNEL, acute		inhalation	local	2,5 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	local	2,5 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	1,5 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	local	1,5 mg/m <sup>3</sup>
Consumer DNEL, long-term		oral	systemic	25 mg/kg bw/day

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#### PNEC values

CAS No	Substance	Value
Environmental compartment		
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
10555-76-7	Sodium Metaborate, Tetrahydrate	
Freshwater		2,02 mg/l
Freshwater (intermittent releases)		13,7 mg/l
Marine water		2,02 mg/l
Soil		5,4 mg/kg
Air		--- mg/l
68155-20-4	Alkanolamides	
Freshwater		0,0022 mg/l
Marine water		0,0002 mg/l
Freshwater sediment		0,0627 mg/kg
Marine sediment		0,0063 mg/kg
Micro-organisms in sewage treatment plants (STP)		100 mg/l
Soil		0,0112 mg/kg
64-02-8	tetrasodium ethylene diamine tetraacetate	
Freshwater		2,2 mg/l
Freshwater (intermittent releases)		1,2 mg/l
Marine water		0,22 mg/l
Freshwater sediment		0,72 mg/kg
7173-51-5	didecyldimethylammonium chloride	
Freshwater		0,0011 mg/l
Marine water		0,00011 mg/l
Freshwater sediment		61,86 mg/kg
Marine sediment		6,186 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,14 mg/l
Soil		0,14 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): >=8h

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CR (polychloroprenes, Chloroprene rubber). 0,5 mm penetration time (maximum wearing period): >=8h

NBR (Nitrile rubber). 0,35 mm penetration time (maximum wearing period): >=8h

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

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.

**SECTION 9: Physical and chemical properties****9.1. Information on basic physical and chemical properties**

Physical state: liquid  
Colour: clear, colourless  
Odour: like: Isopropyl alcohol.

	Test method
Melting point/freezing point:	-15 °C
Boiling point or initial boiling point and boiling range:	>100 °C
Flash point:	28 °C
pH-Value (at 20 °C):	13,5 DGF H-III 1
Water solubility:	complete miscible
Density (at 20 °C):	0,96 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 GB CLP Regulation**

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#### Acute toxicity

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

#### ATEmix calculated

ATE (inhalation vapour) 106,00 mg/l

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-63-0	propan-2-ol; isopropyl alcohol; isopropanol				
	oral	LD50 mg/kg	5840	rat	OECD 401
	dermal	LD50 mg/kg	13100	kan	OECD 402
	inhalation (4 h) vapour	LC50	>20 mg/l	rat	OECD 403
1310-73-2	Sodium hydroxide; caustic soda				
	oral	LD50 mg/kg	2000	rat	
10555-76-7	Sodium Metaborate, Tetrahydrate				
	oral	LD50 mg/kg	2330	Rat	
	dermal	LD50 mg/kg	>2000	rabbit	
	inhalation vapour	LC50	2,12 mg/l	Rat	
68155-20-4	Alkanolamides				
	oral	LD50 mg/kg	1600	rat	
	dermal	LD50 mg/kg	12200		
64-02-8	tetrasodium ethylene diamine tetraacetate				
	oral	LD50	1780- 2000 mg/kg	rat	ECHA
	inhalation vapour	ATE	11 mg/l		
	inhalation dust/mist	ATE	1,5 mg/l		
7173-51-5	didecyldimethylammonium chloride				
	oral	LD50 mg/kg	658	rat	

#### Irritation and corrosivity

Causes skin irritation.

Causes serious eye irritation.

#### 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

May cause drowsiness or dizziness. (propan-2-ol; isopropyl alcohol; isopropanol)

#### 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.



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## 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.

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)				
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	
64-02-8	tetrasodium ethylene diamine tetraacetate					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Lepomis macrochirus	ECHA	EPA-Guideline OPP 72-1
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna	ECHA	DIN 38412 / part 11
7173-51-5	didecyldimethylammonium chloride					
	Acute fish toxicity	LC50 0,97 mg/l	96 h	Danio rerio	msds	OECD 203
	Acute crustacea toxicity	EC50 >0,01-0,1 mg/l	48 h	Daphnia magna		
	Crustacea toxicity	NOEC >0,01-0,1 mg/l	21 d	Daphnia magna		OECD 211

### 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.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
68155-20-4	Alkanolamides			
	OECD 301 D	>60	28	
7173-51-5	didecyldimethylammonium chloride			
	OECD 301 D	>70 %		
	easily biodegradable			

### 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
10555-76-7	Sodium Metaborate, Tetrahydrate	-0,757
64-02-8	tetrasodium ethylene diamine tetraacetate	-13
7173-51-5	didecyldimethylammonium chloride	1,2

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**BCF**

CAS No	Chemical name	BCF	Species	Source
64-02-8	tetrasodium ethylene diamine tetraacetate	1,8	Lepomis macrochirus	
7173-51-5	didecyldimethylammonium chloride	81		

**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 UK REACH.  
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**

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****Land transport (ADR/RID)**

<b>14.1. UN number or ID number:</b>	UN1987
<b>14.2. UN proper shipping name:</b>	ALCOHOLS, N.O.S. (Contains Isopropanol, solution)
<b>14.3. Transport hazard class(es):</b>	3
<b>14.4. Packing group:</b>	III
Hazard label:	3
Classification code:	F1
Special Provisions:	274 601
Limited quantity:	5 L
Transport category:	3
Hazard No:	30
Tunnel restriction code:	D/E

**Marine transport (IMDG)**

<b>14.1. UN number or ID number:</b>	UN1987
<b>14.2. UN proper shipping name:</b>	ALCOHOLS, N.O.S. (CONTAINS ISOPROPANOL, SOLUTION)
<b>14.3. Transport hazard class(es):</b>	3

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**14.4. Packing group:** III  
 Hazard label: 3  
 Special Provisions: 223, 274  
 Limited quantity: 5 L  
 EmS: F-E, S-D

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

**14.1. UN number or ID number:** UN1987  
**14.2. UN proper shipping name:** ALCOHOLS, N.O.S. (Contains Isopropanol, solution)  
**14.3. Transport hazard class(es):** 3  
**14.4. Packing group:** III  
 Hazard label: 3  
 Special Provisions: A3 A180  
 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)

Excepted Quantity: E1  
 Passenger-LQ: Y344

### 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): 30 % (288 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 GB CLP Regulation

Classification	Classification procedure
Flam. Liq. 3; H226	On basis of test data
Skin Irrit. 2; H315	Calculation method
Eye Irrit. 2; H319	Calculation method
STOT SE 3; H336	Calculation method

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

H225 Highly flammable liquid and vapour.  
 H226 Flammable liquid and vapour.  
 H302 Harmful if swallowed.  
 H314 Causes severe skin burns and eye damage.  
 H315 Causes skin irritation.  
 H318 Causes serious eye damage.

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H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H336	May cause drowsiness or dizziness.
H361d	Suspected of damaging the unborn child.
H361fd	Suspected of damaging fertility. Suspected of damaging the unborn child.
H373	May cause damage to organs through prolonged or repeated exposure.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

**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 DB	PW	20	35	8a, 9, 13	8a	0	26	

LCS: Life cycle stages

SU: Sectors of use

PC: Product categories

PROC: Process categories

ERC: Environmental release categories

AC: Article categories

TF: Technical functions

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