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

1.1. Product identifier

STAMMOPUR DB

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.

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		

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 opthalmologist.

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 (CO_2).

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.

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/m³	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

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
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
10555-76-7	Sodium Metaborate, Tetrahydrate			
Worker DNEL, long-term		inhalation	systemic	18,5 mg/m³
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/m³
Consumer DNEL, long-term		dermal	systemic	437,5 mg/kg bw/day
68155-20-4	Alkanolamides			
Worker DNEL, long-term		inhalation	local	1 mg/m³
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/m³
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/m³
Worker DNEL, long-term		inhalation	local	2,5 mg/m³
Consumer DNEL, acute		inhalation	local	1,5 mg/m³
Consumer DNEL, long-term		inhalation	local	1,5 mg/m³
Consumer DNEL, long-term		oral	systemic	25 mg/kg bw/day

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
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

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/cm³	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

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 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
1310-73-2	Sodium hydroxide; caustic soda				
	oral	LD50 2000 mg/kg	rat		
10555-76-7	Sodium Metaborate, Tetrahydrate				
	oral	LD50 2330 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	rabbit		
	inhalation vapour	LC50 2,12 mg/l	Rat		
68155-20-4	Alkanolamides				
	oral	LD50 1600 mg/kg	rat		
	dermal	LD50 12200 mg/kg			
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 658 mg/kg	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.

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 %		
	easiyl 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

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)

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
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)

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:	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.

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.)