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

1.1. Product identifier

TICKOPUR TR 13

UFI: AW10-90XT-9003-DTK1

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

Use of the substance/mixture

Cleaning agent. Intensive cleaner for the ultrasonic bath, alkaline, demulsifying, 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:	D-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

Skin Corr. 1; H314
Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

2.2. Label elements

GB CLP Regulation

Hazard components for labelling

Sodium hydroxide; caustic soda
Phosphoric acid ester, sodium-salt

Signal word: Danger

Pictograms:

Hazard statements

H314	Causes severe skin burns and eye damage.

Precautionary statements

P280	Wear protective gloves/protective clothing and 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.

2.3. Other hazards

The mixture does not contain substances >=0.1% of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Relevant ingredients

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification (GB CLP Regulation)			
7732-18-5	Water			70-80 %
	231-791-2			
527-07-1	Sodium gluconate			<5,0 %
	208-407-7		*1	
1310-73-2	Sodium hydroxide; caustic soda			<5,0 %
	215-185-5	011-002-00-6	01-2119457892-27	
	Skin Corr. 1A; H314			
100085-64-1	Cocobetainamido Amphopropionate			<5,0 %
	309-206-8		*	
	Skin Irrit. 2, Eye Irrit. 2, Aquatic Acute 1; H315 H319 H400			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			<5,0 %
	203-961-6		01-2119475104-44	
	Eye Irrit. 2; H319			
111798-26-6	Phosphoric acid ester, sodium-salt			<2,0 %
	-		*	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt			<1,0 %
	257-573-7		01-2119493601-38	
	Met. Corr. 1; H290			

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		
1310-73-2	215-185-5	Sodium hydroxide; caustic soda	<5,0 %
	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		
100085-64-1	309-206-8	Cocobetainamido Amphopropionate	<5,0 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = >2000 mg/kg		
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	<5,0 %
	dermal: LD50 = 2764 mg/kg; oral: LD50 = 2410 mg/kg		
111798-26-6	-	Phosphoric acid ester, sodium-salt	<2,0 %
	oral: LD50 = >2000 mg/kg		
51981-21-6	257-573-7	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt	<1,0 %
	oral: LD50 = >5000 mg/kg		

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

< 5 % amphoteric surfactants, < 5 % anionic surfactants.

Further Information

*Polymer

*1 Exempted from regsitration (Annex IV listed)

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated, saturated clothing immediately.

After inhalation

In case of inhalation of aerosols/spray mist/splash spots: Consult physician. Provide fresh air.

After contact with skin

After contact with skin, wash immediately with: 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 known symptoms to date.

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

In case of fire may be liberated: Nitrogen oxides (NOx). Carbon dioxide (CO_2).

5.3. Advice for firefighters

Special protective equipment for firefighters Use appropriate respiratory protection. In case of fire and/or explosion do not breathe fumes.

Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General advice

Keep away from unprotected people. Keep upwind. Wear breathing apparatus if exposed to vapours/dusts/aerosols. Remove persons to safety.

6.2. Environmental precautions

Do not allow to enter into surface water or drains. Prevent spread over a wide area (e.g. by containment or oil barriers).

6.3. Methods and material for containment and cleaning up

Other information

Clean contaminated articles and floor according to the environmental legislation. Treat the recovered material

as prescribed in the section on waste disposal. Suitable material for taking up: Sand Universal binding agent. earth. Sawdust.

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

It is recommended to design all work processes always so that the following is excluded: skin contact. Eye contact.

Advice on protection against fire and explosion

The product is not: Oxidizing. Flammable. Explosive.

Advice on general occupational hygiene

Do not eat, drink, smoke or sneeze at the workplace.
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.
Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

Cleaning agent.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	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
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
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
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
Worker DNEL, long-term		inhalation	local	67,5 mg/m³

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 safety goggles/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 properties of the material must be taken into consideration.
Recommended protective gloves brand: Camapren 722, Manufacturer: KCL, Or comparable articles from other companies.

Skin protection

Lab apron.

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 yellow
Odour:	characteristic
Odour threshold:	not determined

		Test method
Melting point/freezing point:	-9 °C	
Boiling point or initial boiling point and boiling range:	100 °C	
Flammability:	non-flammable	
Lower explosion limits:	not applicable	
Upper explosion limits:	not applicable	
Flash point:		No flash point up to 100 °C.
Auto-ignition temperature:	not determined	
Decomposition temperature:	not determined	
pH-Value (at 20 °C):	13,7 (conc.) 12,1 (1 %)	DGF H-III 1
Viscosity / kinematic:	not determined	
Water solubility: (at 20 °C)	complete miscible	
Solubility in other solvents not determined		
Dissolution rate:	not determined	
Partition coefficient n-octanol/water:	not determined	
Dispersion stability:	not determined	
Vapour pressure:	not determined	
Vapour pressure:	not determined	
Density (at 20 °C):	1,095 g/cm³	DIN 12791
Bulk density:	not applicable	
Relative vapour density:	not determined	
Particle characteristics:	not determined	

9.2. Other information

Information with regard to physical hazard classes

Explosive properties
not Explosive.

Sustaining combustion:	No data available

Oxidizing properties
not oxidizing.

Other safety characteristics

Evaporation rate:	not determined
Sublimation point:	not determined
Softening point:	not determined
Pour point:	not determined
Viscosity / dynamic:	not determined
Flow time:	not determined

SECTION 10: Stability and reactivity

10.1. Reactivity

Exothermic reactions with: acid, concentrated.

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. Reducing agents.

10.6. Hazardous decomposition products

None, in case of proper use.

Further information

Do not mix with other products.

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 (oral) > 2000 mg/kg; ATE (dermal) > 2000 mg/kg; ATE (inhalation vapour) > 20 mg/l; ATE (inhalation dust/mist) > 5 mg/l

CAS No	Chemical name					
	Exposure route	Dose		Species	Source	Method
1310-73-2	Sodium hydroxide; caustic soda					
	oral	LD50 mg/kg	2000	rat		
100085-64-1	Cocobetainamido Amphopropionate					
	oral	LD50 mg/kg	>2000	Ratte	OECD 401	
	dermal	LD50 mg/kg	>2000	Ratte	OECD 402	
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	oral	LD50 mg/kg	2410	mouse		OECD 401
	dermal	LD50 mg/kg	2764	rabbit		OECD 402
111798-26-6	Phosphoric acid ester, sodium-salt					
	oral	LD50 mg/kg	>2000	Ratte		
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt					
	oral	LD50 mg/kg	>5000	rat		Calculated

Irritation and corrosivity

Skin corrosion/irritation: Causes severe skin burns and eye damage. (On basis of test data)
Serious eye damage/eye irritation: Causes serious eye damage. (On basis of test data)
Irritant effect on the skin: corrosive. Irritant effect on the eye: corrosive.

Sensitising effects

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

Carcinogenic/mutagenic/toxic effects for reproduction

Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Carcinogenicity: Based on available data, the classification criteria are not met.
Reproductive toxicity: 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.

11.2. Information on other hazards

Other information

The mixture does not contain substances >=0.1% of substances that have endocrine disrupting properties according to Regulation (EC) No. 1907/2006, Article 59(1) or Regulation (EU) 2017/2100 or Regulation (EU) 2018/605.

SECTION 12: Ecological information

12.1. Toxicity

Based on available data, the classification criteria are not met.
Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge. due to the alkaline character of the product, usually, it has to be

neutralized before contaminated effluents are introduced into the waste water treatment system.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
527-07-1	Sodium gluconate						
	Acute fish toxicity	LC50 mg/l	>10000	96 h			
1310-73-2	Sodium hydroxide; caustic soda						
	Acute fish toxicity	LC50	125 mg/l	96 h	Gambusia affinis	SDB Lieferant	
	Acute crustacea toxicity	EC50 mg/l	40,4	48 h	Ceriodaphnia	ECHA	
100085-64-1	Cocobetainamido Amphopropionate						
	Acute fish toxicity	LC50	15 mg/l	96 h	Regenbogenforelle	OECD 203	
	Acute algae toxicity	ErC50 mg/l	0,15	72 h	Selenastrum capricornutum	OECD 201	
	Acute crustacea toxicity	EC50	4,4 mg/l	48 h	Daphnia magna	OECD 202	
	Acute bacteria toxicity	EC50 mg/l ( )	>100		Belebtschlamm	OECD 209	
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether						
	Acute fish toxicity	LC50 mg/l	1300	96 h	Lepomis macrochirus		OECD 203
	Acute algae toxicity	ErC50 mg/l	1101	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnia magna		EU method C.2
	Algae toxicity	NOEC mg/l	>100	4 d	Desmodesmus supspicatus		OECD 201
111798-26-6	Phosphoric acid ester, sodium-salt						
	Acute fish toxicity	LC50	260 mg/l	96 h	Leuciscus idus		DIN 38412/15
	Acute crustacea toxicity	EC50	267 mg/l	48 h	Daphnia magna		DIN 38412/11
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt						
	Acute fish toxicity	LC50 mg/l	>100	96 h	Oncorhynchus mykiss		OECD 203
	Acute algae toxicity	ErC50 mg/l	>100	72 h	Desmodesmus subspicatus	OECD 201	
	Acute crustacea toxicity	EC50 mg/l	>100	48 h	Daphnien		OECD 202

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			
527-07-1	Sodium gluconate			
		98 %	2	
100085-64-1	Cocobetainamido Amphopropionate			
	OECD 301A	>70 %	28	
	easily biodegradable			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
	OECD 301 C	85 %	28	
	leicht biologisch abbaubar			
111798-26-6	Phosphoric acid ester, sodium-salt			
	OECD 301A	62 %	28	
	leicht bioligisch abbaubar			
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
51981-21-6	N,N-bis(carboxylatomethyl)-L-glutamate, Sodium salt	-11,95

BCF

CAS No	Chemical name	BCF	Species	Source
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	<100		

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.

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

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

Contaminated packaging

Completely emptied packings can be re-cycled.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number or ID number:	UN1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE, SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C5
Limited quantity:	5 L
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

Inland waterways transport (ADN)

14.1. UN number or ID number:	UN 1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Classification code:	C5
Limited quantity:	5 L
Excepted quantity:	E1

Marine transport (IMDG)

14.1. UN number or ID number:	UN1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Marine pollutant:	no
Special Provisions:	223
Limited quantity:	5 L
EmS:	F-A, S-B

Other applicable information (marine transport)

Excepted Quantity: E1

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:	UN1824
14.2. UN proper shipping name:	SODIUM HYDROXIDE SOLUTION
14.3. Transport hazard class(es):	8
14.4. Packing group:	III
Hazard label:	8
Special Provisions:	A3 A803
Limited quantity Passenger:	1 L
IATA-packing instructions - Passenger:	852
IATA-max. quantity - Passenger:	5 L
IATA-packing instructions - Cargo:	856
IATA-max. quantity - Cargo:	60 L

Other applicable information (air transport)

Excepted Quantity: E1

Passenger-LQ: Y841

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No special precautionary measures are necessary.

14.7. Maritime transport in bulk according to IMO instruments

not applicable

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 55, Entry 75

Directive 2004/42/EC on VOC in paints and varnishes: 8,5 % (92,65 g/l)

National regulatory information

Water hazard class (D): 1 - slightly 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: 9.1., 9.2.

Abbreviations and acronyms

Met. Corr: Corrosive to metals
Skin Corr: Skin corrosion
Skin Irrit: Skin irritation
Eye Dam: Eye damage
Eye Irrit: Eye irritation
Aquatic Acute: Acute aquatic hazard

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

Classification	Classification procedure
Skin Corr. 1; H314	On basis of test data
Eye Dam. 1; H318	On basis of test data

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.
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.

Further Information

Training instructions: Follow the instructions 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	TICKOPUR TR 13	IS, PW	0	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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)