

**TICKOPUR TR 14**

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No: 83034

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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:

G020-T0N6-K00M-1553

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

Cleaning agent. Flux remover, for the ultrasonic bath, without tensides, 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**

24-hours-emergency: Giftnotruf Berlin: +49 30 30686700 (german, english)

**number:****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**

Disodium metasilicate pentahydrat  
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/hearing 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			80-90 %
	231-791-2			
497-19-8	sodium carbonate			<5,0 %
	207-838-8	011-005-00-2	01-2119485498-19	
	Eye Irrit. 2; H319			
10213-79-3	Disodium metasilicate pentahydrat			<3,0 %
	600-279-4		01-2119449811-37	
	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3; H290 H314 H318 H335			
1310-73-2	Sodium hydroxide; caustic soda			<1,0 %
	215-185-5	011-002-00-6	01-2119457892-27	
	Skin Corr. 1A; H314			
1336-21-6	ammonia ... %			<2,5 %
	215-647-6		01-2119488876-14	
	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3, Aquatic Acute 1; H290 H314 H318 H335 H400			
22042-96-2	Phosphonate			<2,0 %
	244-751-4		01-2119514449-36	

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		
497-19-8	207-838-8	sodium carbonate	<5,0 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 2800 mg/kg		
10213-79-3	600-279-4	Disodium metasilicate pentahydrat	<3,0 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = 1349 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		

## SECTION 4: First aid measures

## 4.1. Description of first aid measures

## General information

Change contaminated clothing.

## After inhalation

Provide fresh air.

## 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.

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**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 (NO<sub>x</sub>). Carbon dioxide (CO<sub>2</sub>).

**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****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**

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## Occupational exposure limits

CAS No	Substance	ppm	mg/m <sup>3</sup>	fib/cm <sup>3</sup>	Category	Origin
1310-73-2	Sodium hydroxide	-	2		STEL (15 min)	

## DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
497-19-8	sodium carbonate			
Worker DNEL, long-term		inhalation	systemic	10 mg/m <sup>3</sup>
Consumer DNEL, long-term		inhalation	systemic	10 mg/m <sup>3</sup>
10213-79-3	Disodium metasilicate pentahydrat			
Consumer DNEL, long-term		oral	systemic	0,74 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	1,49 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	1,55 mg/m <sup>3</sup>
Worker DNEL, long-term		inhalation	systemic	6,22 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>
1336-21-6	ammonia ... %			
Worker DNEL, acute		inhalation	local	47,6 mg/m <sup>3</sup>
Consumer DNEL, acute		inhalation	local	23,8 mg/m <sup>3</sup>
22042-96-2	Phosphonate			
Consumer DNEL, long-term		oral	systemic	1,9 mg/kg bw/day
Consumer DNEL, acute		oral	systemic	1,9 mg/kg bw/day

## PNEC values

CAS No	Substance	Value
	Environmental compartment	
10213-79-3	Disodium metasilicate pentahydrat	
Freshwater		7,5 mg/l
Marine water		1 mg/l
Micro-organisms in sewage treatment plants (STP)		1000 mg/l
1336-21-6	ammonia ... %	
Freshwater		0,0011 mg/l
22042-96-2	Phosphonate	
Freshwater		0,52 mg/l
Marine water		0,052 mg/l
Freshwater sediment		108 mg/kg
Marine sediment		10,8 mg/kg
Micro-organisms in sewage treatment plants (STP)		20 mg/l
Soil		174 mg/kg

## 8.2. Exposure controls

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**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):  $\geq 8$ hCR (polychloroprenes, Chloroprene rubber). 0,5 mm penetration time (maximum wearing period):  $\geq 8$ hNBR (Nitrile rubber). 0,35 mm penetration time (maximum wearing period):  $\geq 8$ hButyl 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.

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

Physical state:	liquid
Colour:	clear, yellow
Odour:	like: Ammonia

Melting point/freezing point:	-6 °C	Test method
Boiling point or initial boiling point and boiling range:	>100 °C	
Flash point:	---	
pH-Value (at 20 °C):	13,5 (conc.) 11,5 (1 %)	DGF H-III 1
Water solubility:	complete miscible	
Density (at 20 °C):	1,085 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**

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.

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**10.5. Incompatible materials**

acid, concentrated.

**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 Regulation (EC) No 1272/2008****Acute toxicity**

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
497-19-8	sodium carbonate				
	oral	LD50 2800 mg/kg	rat		
	dermal	LD50 >2000 mg/kg			
10213-79-3	Disodium metasilicate pentahydrat				
	oral	LD50 1349 mg/kg	rat		
	dermal	LD50 >5000 mg/kg	rat		EPA OPPTS 870.1200
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. 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.

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h]   [d]	Species	Source	Method
497-19-8	sodium carbonate					
	Acute fish toxicity	LC50 300 mg/l	96 h	Lepomis macrochirus	msds	
	Acute crustacea toxicity	EC50 200 mg/l	48 h	Daphnia magna	msds	
10213-79-3	Disodium metasilicate pentahydrat					
	Acute fish toxicity	LC50 210 mg/l	96 h	Danio rerio		ISO 7346/1
	Acute algae toxicity	ErC50 >345,4 mg/l	72 h	Scenedesmus subspicatus		DIN 38412
	Acute crustacea toxicity	EC50 1700 mg/l	48 h	Daphnia magna		
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	
1336-21-6	ammonia ... %					
	Acute fish toxicity	LC50 0,89 mg/l	96 h		msds	
	Acute crustacea toxicity	EC50 48 mg/l	48 h		msds	
	Crustacea toxicity	NOEC 0,42 mg/l	21 d	Daphnia magna	msds	

**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.

**12.3. Bioaccumulative potential**

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

**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**

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

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**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****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 75

2004/42/EC (VOC): 0 % (0 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: 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	Calculation method
Eye Dam. 1; H318	Calculation method

**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.  
H335 May cause respiratory irritation.  
H400 Very toxic to aquatic life.

**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.



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**Identified uses**

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	TICKOPUR TR 14	IS, PW	0	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.)*