

TICKOPUR TR 2

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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:

TN10-S0VM-C00M-DSTU

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

Cleaning agent. Special acid cleaner for the ultrasonic bath, 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: 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**

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**

C12-C14 Fatty alcohol ethoxylate
Phosphoric acid ... %; orthophosphoric acid
Phosphoric acid ester, sodium-salt

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

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			70-80 %
	231-791-2			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			<10,0 %
	203-961-6		01-2119475104-44	
	Eye Irrit. 2; H319			
68439-50-9	C12-C14 Fatty alcohol ethoxylate			<10,0 %
	-		*	
	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 3; H302 H318 H412			
7664-38-2	Phosphoric acid ... %; orthophosphoric acid			<5,0 %
	231-633-2	015-011-00-6	01-2119485924-24	
	Skin Corr. 1B; H314			
111798-26-6	Phosphoric acid ester, sodium-salt			<2,0 %
	-		*	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
12645-31-7	Phosphoric acid-2 ethylhexylester			<1,0 %
	235-741-0		01-2119896587-13	
	Skin Corr. 1B; 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	
112-34-5	203-961-6	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether	<10,0 %
		dermal: LD50 = 2764 mg/kg; oral: LD50 = 2410 mg/kg	
68439-50-9	-	C12-C14 Fatty alcohol ethoxylate	<10,0 %
		oral: LD50 = <2000 mg/kg	
7664-38-2	231-633-2	Phosphoric acid ... %; orthophosphoric acid	<5,0 %
		Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25	
111798-26-6	-	Phosphoric acid ester, sodium-salt	<2,0 %
		oral: LD50 = >2000 mg/kg	
12645-31-7	235-741-0	Phosphoric acid-2 ethylhexylester	<1,0 %
		oral: LD50 = 2500 mg/kg	

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

5 % - < 15 % non-ionic surfactants, < 5 % anionic surfactants.

Further Information

*Polymer

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated clothing.

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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.

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 (NO_x). Carbon dioxide (CO₂). Phosphorus oxides.

5.3. Advice for firefighters

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

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**

Treat the assimilated material according to the section on waste disposal. Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents).

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.

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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 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 ³	fib/cm ³	Category	Origin
112-34-5	2-(2-Butoxyethoxy)ethanol	10	67.5		TWA (8 h)	
		15	101.2		STEL (15 min)	
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	
		-	2		STEL (15 min)	

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
Worker DNEL, long-term		inhalation	local	67,5 mg/m ³
7664-38-2	Phosphoric acid ... %; orthophosphoric acid			
Worker DNEL, long-term		inhalation	systemic	10,7 mg/m ³
Worker DNEL, long-term		inhalation	local	1 mg/m ³
Worker DNEL, acute		inhalation	local	2 mg/m ³
12645-31-7	Phosphoric acid-2 ethylhexylester			
Consumer DNEL, long-term		oral	systemic	6,25 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	10,42 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	6,25 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	36,73 mg/m ³
Consumer DNEL, acute		inhalation	systemic	10,87 mg/m ³

PNEC values

CAS No	Substance	Value
Environmental compartment		
12645-31-7	Phosphoric acid-2 ethylhexylester	
Freshwater		0,049 mg/l
Marine water		0,0015 mg/l
Marine sediment		0,35 mg/kg
Micro-organisms in sewage treatment plants (STP)		15 mg/l

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): ≥ 8 hCR (polychloroprenes, Chloroprene rubber). 0,5 mm penetration time (maximum wearing period): ≥ 8 hNBR (Nitrile rubber). 0,35 mm penetration time (maximum wearing period): ≥ 8 hButyl rubber. FKM (Fluoroelastomer (Viton)). 0,5 mm penetration time (maximum wearing period): ≥ 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, colourless - light yellow	
Odour:	characteristic	
		Test method
Melting point/freezing point:	-6 °C	
Boiling point or initial boiling point and boiling range:	100 °C	
Flash point:	---	
pH-Value (at 20 °C):	1,4 (conc.) 3,6 (1 %)	DGF H-III 1
Water solubility: (at 20 °C)	complete miscible	
Density (at 20 °C):	1,03 g/cm ³	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.

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10.4. Conditions to avoid

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

10.5. Incompatible materials

Alkalis (alkalis), concentrated. Alkali metals.

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.

ATEmix calculated

ATE (oral) 9259,3 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether				
	oral	LD50 2410 mg/kg	mouse		OECD 401
	dermal	LD50 2764 mg/kg	rabbit		OECD 402
68439-50-9	C12-C14 Fatty alcohol ethoxylate				
	oral	LD50 <2000 mg/kg	rat		Cesio-Recommendation
111798-26-6	Phosphoric acid ester, sodium-salt				
	oral	LD50 >2000 mg/kg	Ratte		
12645-31-7	Phosphoric acid-2 ethylhexylester				
	oral	LD50 2500 mg/kg	rat	MSDS	

Irritation and corrosivity

Causes serious eye damage.

Skin corrosion/irritation: Based on available data, the classification criteria are not met.

Risk of serious damage to eyes.

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

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12.1. Toxicity

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge. Product is acid. The product needs to apply neutralizing agents before draining to wastewater treatment plants.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether					
	Acute fish toxicity	LC50 1300 mg/l	96 h	Lepomis macrochirus		OECD 203
	Acute algae toxicity	ErC50 1101 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna		EU method C.2
	Algae toxicity	NOEC >100 mg/l	4 d	Desmodesmus supspicatus		OECD 201
7664-38-2	Phosphoric acid ... %; orthophosphoric acid					
	Acute fish toxicity	LC50 138 mg/l	96 h	Gambusia affinis		
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Gambia magna		
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
12645-31-7	Phosphoric acid-2 ethylhexylester					
	Acute fish toxicity	LC50 189-355 mg/l	96 h	Danio rerio		OECD 203A

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			
112-34-5	2-(2-butoxyethoxy)ethanol, diethylene glycol monobutyl ether			
	OECD 301 C	85 %	28	
	leicht biologisch abbaubar			
68439-50-9	C12-C14 Fatty alcohol ethoxylate			
	OECD 301F	>60 %	28	
	easily biodegradable			
111798-26-6	Phosphoric acid ester, sodium-salt			
	OECD 301A	62 %	28	
	leicht biologisch abbaubar			
12645-31-7	Phosphoric acid-2 ethylhexylester			
	OECD 301 B	>60 %		
	easy biodegradable			
	OECD 302 B	74 %	28	
	OECD 301 D	82 %	21	

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12.3. Bioaccumulative potential

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

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 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

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 55

2004/42/EC (VOC): 8 % (82,4 g/l)

National regulatory information

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

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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
Eye Dam. 1; H318	Calculation method

Relevant H and EUH statements (number and full text)

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.
H412	Harmful 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	TICKOPUR TR 2	IS, PW	0	35	8a, 9, 13	8a, 8b	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.)