

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 1 of 11

SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

TICKOPUR R 32

UFI:

V710-80EM-U005-32WH

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

Cleaning agent. Special cleaner for the ultrasonic bath, without complexing agents, 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

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

number:**SECTION 2: Hazards identification****2.1. Classification of the substance or mixture****GB CLP Regulation**

Skin Irrit. 2; H315

Eye Dam. 1; H318

Full text of hazard statements: see SECTION 16.

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

Phosphoric acid ester, sodium-salt

Disodium metasilicate pentahydrat

Signal word:

Danger

Pictograms:**Hazard statements**

H315

Causes skin irritation.

H318

Causes serious 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 $\geq 0.1\%$ 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.

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 2 of 11

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			
7320-34-5	Tetrapotassium pyrophosphate			<9,0 %
	230-785-7		01-2119489369-18	
	Eye Irrit. 2; H319			
111798-26-6	Phosphoric acid ester, sodium-salt			<8,0 %
	-		*	
	Skin Irrit. 2, Eye Dam. 1; H315 H318			
10213-79-3	Disodium metasilicate pentahydrat			<4,0 %
	229-912-9		01-2119449811-37	
	Met. Corr. 1, Skin Corr. 1B, Eye Dam. 1, STOT SE 3; H290 H314 H318 H335			
1471314-81-4	Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl], N'-oxides			<1,0 %
	939-581-9		01-2119978229-22	
	Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, Aquatic Acute 1, Aquatic Chronic 3; H302 H315 H318 H400 H412			

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		
7320-34-5	230-785-7	Tetrapotassium pyrophosphate	<9,0 %
	dermal: LD50 = 7940 mg/kg; oral: LD50 = >2000 mg/kg		
111798-26-6	-	Phosphoric acid ester, sodium-salt	<8,0 %
	oral: LD50 = >2000 mg/kg		
10213-79-3	229-912-9	Disodium metasilicate pentahydrat	<4,0 %
	dermal: LD50 = >5000 mg/kg; oral: LD50 = 1349 mg/kg		
1471314-81-4	939-581-9	Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl], N'-oxides	<1,0 %
	dermal: LD50 = >2000 mg/kg; oral: LD50 = 1000 mg/kg		

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

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

Further Information

*Polymer

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Change contaminated clothing.

After inhalation

In case of inhaling spray mist, consult a physician.

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 3 of 11

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.

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 (CO2).

5.3. Advice for firefighters

Protective clothing.

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**

Wear personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up**Other information**

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Treat the recovered material as prescribed in 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

The 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 after work.

7.2. Conditions for safe storage, including any incompatibilities

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 4 of 11

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****DNEL/DMEL values**

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
7320-34-5	Tetrapotassium pyrophosphate			
Worker DNEL, long-term		inhalation	systemic	2,79 mg/m ³
Consumer DNEL, long-term		inhalation	systemic	0,68 mg/m ³
Consumer DNEL, long-term		oral	systemic	70 mg/kg bw/day
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 ³
Worker DNEL, long-term		inhalation	systemic	6,22 mg/m ³
1471314-81-4	Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl], N'-oxides			
Worker DNEL, long-term		inhalation	systemic	3,52 mg/m ³
Worker DNEL, long-term		dermal	systemic	5,0 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	0,87 mg/m ³
Consumer DNEL, long-term		dermal	systemic	2,5 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	0,05 mg/kg bw/day

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 5 of 11

PNEC values

CAS No	Substance	
Environmental compartment		Value
7320-34-5	Tetrapotassium pyrophosphate	
Freshwater		0,05 mg/l
Marine water		0,005 mg/l
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
1471314-81-4	Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl], N'-oxides	
Freshwater		0,0303 mg/l
Marine water		0,00303 mg/l
Freshwater sediment		0,214 mg/kg
Marine sediment		0,0214 mg/kg
Micro-organisms in sewage treatment plants (STP)		9,7 mg/l
Soil		0,000025 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 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

Body 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:	characteristic
Odour threshold:	not determined

Melting point/freezing point:

Test method
-6 °C

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 6 of 11

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):	13,2 (conc.) 11,1 (1 %) DGF H-III 1
Viscosity / kinematic:	not determined
Water solubility:	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):	1,12 g/cm³ DIN 12791
Bulk density:	not applicable
Relative vapour density:	not determined
Particle characteristics:	not applicable

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.

10.6. Hazardous decomposition products

None, in case of proper use.

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 7 of 11

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
7320-34-5	Tetrapotassium pyrophosphate				
	oral	LD50 >2000 mg/kg	mouse		
	dermal	LD50 7940 mg/kg	rabbit		
111798-26-6	Phosphoric acid ester, sodium-salt				
	oral	LD50 >2000 mg/kg	Ratte		
10213-79-3	Disodium metasilicate pentahydrat				
	oral	LD50 1349 mg/kg	rat		
	dermal	LD50 >5000 mg/kg	rat		EPA OPPTS 870.1200
1471314-81-4	Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl], N'-oxides				
	oral	LD50 1000 mg/kg	rat		
	dermal	LD50 >2000 mg/kg			

Irritation and corrosivity

Skin corrosion/irritation: Causes skin irritation.

Serious eye damage/eye 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

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.

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 8 of 11

11.2. Information on other hazards**Other information**

The mixture does not contain substances $\geq 0.1\%$ 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
7320-34-5	Tetrapotassium pyrophosphate					
	Acute fish toxicity	LC50 >100 mg/l	96 h	Oncorhynchus mykiss		OECD 203
	Acute crustacea toxicity	EC50 >100 mg/l	48 h	Daphnia magna		EPA OTS 979.1300
	Fish toxicity	NOEC 100 mg/l	4 d	Oncorhynchus mykiss		OECD 203
	Algae toxicity	NOEC 1000 mg/l	3 d	desmodesmus subspicatus		
	Crustacea toxicity	NOEC 100 mg/l	2 d	Daphnia magna		EPA OTS 979.1300
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
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		
1471314-81-4	Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl], N'-oxides					
	Acute fish toxicity	LC50 0,68 mg/l	96 h	Oncorhynchus mykiss		OECD 203
	Acute algae toxicity	ErC50 0,705 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 19,9 mg/l	48 h	Daphnia magna		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.

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 9 of 11

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
111798-26-6	Phosphoric acid ester, sodium-salt			
	OECD 301A	62 %	28	
	leicht biologisch abbaubar			
1471314-81-4	Amides, C12-18 (even numbered), N-[3-(dimethylamino) propyl], N'-oxides			
	OECD 301 B	68 %	28	

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 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

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:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 10 of 11

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Marine transport (IMDG)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number or ID number:

No dangerous good in sense of this transport regulation.

14.2. UN proper shipping name:

No dangerous good in sense of this transport regulation.

14.3. Transport hazard class(es):

No dangerous good in sense of this transport regulation.

14.4. Packing group:

No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: No

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

14.7. Maritime transport in bulk according to IMO instruments

No dangerous good in sense of this transport regulation.

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

Directive 2004/42/EC on VOC in
paints and varnishes: 0 % (0g/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: 1.4., 2.3., 7.3., 9.1., 9.2., 10.6., 11.2., 14.

Abbreviations and acronyms

Met. Corr: Corrosive to metals

Acute Tox: Acute toxicity

Skin Corr: Skin corrosion

Skin Irrit: Skin irritation

Eye Dam: Eye damage

Eye Irrit: Eye irritation

STOT SE: Specific target organ toxicity - single exposure

Aquatic Acute: Acute aquatic hazard

Aquatic Chronic: Chronic aquatic hazard

TICKOPUR R 32

Revision date: 11.11.2025

No.: 83022

Page 11 of 11

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

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.
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.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H412	Harmful to aquatic life with long lasting effects.

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 R 32	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 relevant ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)