

## TICKOPUR R 27

Print date: 05.03.2010

No.: 83020

Page 1 of 4

**1. Identification of the substance/preparation and of the company/undertaking****Identification of the substance or preparation**

TICKOPUR R 27

**Use of the substance/preparation**Cleaning agent. Special acid cleaner for the ultrasonic bath, concentrate,  
\*Restricted to professional users.**Company/undertaking identification**

Company name :	DR.H.STAMM GmbH	Responsible Department :	
Street :	Heinrichstr. 3-4	Telephone :	+49-(0)30-768 80-258
Place :	D-12207 Berlin	e-mail :	sdb@dr-stamm.de
Telephone :	+49-(0)30-768 80-280	Emergency telephone :	+49-(0)30-768 80-280
Internet :	www.dr-stamm.de		

**Further Information**

24-hours-emergency: Giftnotruf Berlin: +49-(0)30-30686790 (german, english)

**2. Hazards identification****Classification**

Indications of danger : Corrosive

R-phrases:

Causes burns.

**3. Composition/information on ingredients**

Chemical characterization ( Mixture )

**Hazardous components**

EC-No.	CAS-No.	Components	Quantity	Classification
231-633-2	7664-38-2	phosphoric acid ... %, orthophosphoric acid ... %	<60 %	C R34
213-791-2	7732-18-5	Water	30-40 %	
	68439-50-9	C12-C14 Fatty alcohol ethoxylate	<10,0 %	Xn, Xi, N R22-41-50

Full text of each relevant R phrase can be found in heading 16.

**4. First aid measures****General information**

Take off immediately all contaminated clothing.

**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.

**5. Fire-fighting measures****Suitable extinguishing media**

Water. Foam. Atomized water.

**Special exposure hazards arising from substance or preparation itself, combustion products, resulting gases**

Can be released in case of fire: Nitrogen oxides (NOx). Carbon dioxide (CO2). Phosphorus oxides.

**Special protective equipment for fire-fighters**

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.

**6. Accidental release measures****Personal precautions**

Keep away from unprotected people. Keep upwind. Wear respiratory protection when in the presence of vapour, dust, and aerosols. Guide people to safety.

## TICKOPUR R 27

Print date: 05.03.2010

No.: 83020

Page 2 of 4

**Environmental precautions**

Do not empty into drains or the aquatic environment. Prevent spreading over great surfaces (e.g. by damming or installing oil booms).

**Methods for cleaning up/taking up**

Clean contaminated articles and floor according to the environmental legislation. Treat the assimilated material according to the section on waste disposal. Suitable absorbing material: Sand Universal binding agent. earth. Sawdust.

**7. Handling and storage****Handling****Advice on safe handling**

It is recommended to organise all working processes in order to exclude the following: skin contact. Eye contact.

**Advice on protection against fire and explosion**

Product is not: Oxidizing. Flammable. Explosive.

**Storage****Requirements for storage rooms and vessels**

Store only in original container.

Keep away from food, drink and animal feedingstuffs.

Storageclass (VCI) : LGK 8 B

**8. Exposure controls/personal protection****Exposure limit values****Occupational exposure limits**

CAS No.	Substance	ml/m <sup>3</sup>	mg/m <sup>3</sup>	f/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	
		-	2		STEL (15 min)	

**Exposure controls****Occupational exposure controls**

Refer to chapter 7. No further action is necessary.

**Protective and hygiene measures**

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.

**Respiratory protection**

Respiratory protection not required.

**Hand protection**

Suitable material: PVC (Polyvinyl chloride). PE (polyethylene). NR (Natural rubber (Caoutchouc), Natural latex). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). Butyl rubber. FKM (Fluoroelastomer (Viton)).

penetration time (maximum wearing period): >480 min. Breakthrough times and swelling characteristics of the material must be taken into consideration.

**Eye protection**

Framed glasses.

**Skin protection**

Lab apron.

**9. Physical and chemical properties****General information**

Physical state : liquid  
 Colour : clear yellow  
 Odour : characteristic

**Important health, safety and environmental information**

pH-Value (at 20 °C) : 0,5 (conc.) 1,9 (1 %)      Test method  
 DGF H-III 1

**Changes in the physical state**

Melting point : -20 °C  
 Boiling point : 100 °C  
 Sublimation point : n.a.  
 Softening point : n.a.

## TICKOPUR R 27

Print date: 05.03.2010

No.: 83020

Page 3 of 4

Flash point : non-flammable

**Explosive properties**

not Explosive.

**Oxidizing properties**

not oxidizing.

Density (at 20 °C) : 1,40 g/cm<sup>3</sup> DIN 12791

Water solubility (at 20 °C) : complete miscible

**10. Stability and reactivity****Materials to avoid**

Alkalis (alkalis), concentrated. Alkali metals.

**Hazardous decomposition products**

None, in case of proper use.

**11. Toxicological information****Acute toxicity**

Acute toxicity, oral LD50: 1530 mg/kg, Rat.

Acute toxicity, dermal LC50: 1,69 mg/l 1h, Rat.

Data apply to the principal component.

**Corrosive and irritant effects**

Irritant effect on the skin: corrosive. Irritant effect on the eye: corrosive.

**Sensitising effects**

no danger of sensitization.

**12. Ecological information****Ecotoxicity**

Technically correct releases of minimal concentrations to adapted biological sewage treatment facility, will not disturb the biodegradability of activated sludge.

**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.

**13. Disposal considerations****Advice on disposal**

According to EAKV, allocation of waste identity numbers/waste descriptions must be carried out in a specific way for every industry and process.

**Contaminated packaging**

Contaminated packing must be completely emptied and can be re-used following appropriate cleaning.

**14. Transport information****Land transport (ADR/RID)**

ADR/RID class : 8

UN number : 1805

ADR/RID packing group : III

Hazard-no. : 80

Hazard label : 8

Classification code : C1

**Description of the goods**

PHOSPHORIC ACID SOLUTION

**Other applicable information (land transport)**

Transport-category: 3 \*: E

**Marine transport**

IMDG code : 8

UN number : 1805

Hazard label : 8

IMDG packing group : III

EmS : F-A, S-B

Marine pollutant : no

**Description of the goods**

PHOSPHORIC ACID SOLUTION

**Air transport**

ICAO/IATA-DGR : 8

UN/ID number : 1805

Hazard label : 8

ICAO packing group : III

**Description of the goods**

PHOSPHORIC ACID SOLUTION

**15. Regulatory information****Labelling**

Danger symbols :

C - Corrosive

## TICKOPUR R 27

Print date: 05.03.2010

No.: 83020

Page 4 of 4

**Hazardous components which must be listed on the label**

phosphoric acid ... %, orthophosphoric acid ... %

**R phrases**

34 Causes burns.

**S phrases**

02 Keep out of the reach of children.

26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

37/39 Wear suitable gloves and eye/face protection.

**EU regulatory information**

1999/13/EC (VOC) : 0 % (0 g/l)

**National regulatory information**

Water contaminating class (D) : 2 - water contaminating

**16. Other information****Full text of R-phrases referred to under sections 2 and 3**

22 Harmful if swallowed.

34 Causes burns.

41 Risk of serious damage to eyes.

50 Very toxic to aquatic organisms.

**Other data**

Training instructions: Notice the directions for use on the label.

The information is based on present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

**Changes**

\* Data changed from previous versions

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*(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractor's safety data sheet.)*