

EC Safety Data Sheet
(according to 93/112/EEC)

Revision date 18/05/2000
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Appendix No. 1
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1. Identification of the substance/product of the company :

1.1 Identification of the product/trade name **TICKOPUR R33**

1.2 Information about Manufacturer/Supplier

1.2.1 Manufacturer/Supplier: I Holland Ltd
Meadow Lane
Long Eaton
Nottingham
NG10 2GD

1.2.2 Information department: Equipment Division
Tel: + (0) 115 972 6153

2. Composition/Data on Components:

2.1. Chemical characterisation (Composition)

CAS No	Chemical Name	Weight -%	Symbol	Risk Phrase
5064-31-3	Nitrilotriacetic acid, Na-salt*	< 1,5	Xn	22-36
7664-38-2	Phosphate*	<9,0	-	-
6834-92-0	Sodiummetasilicate	<4,0	C	34-37
111798-26-6	Phosphoric acid Partialester	<8,0	Xi	36/38
68155-09-9	C ₈ - C ₁₈ Aminoxides*	<1,0	Xi	36/38-41
7732-18-5	Water*	Rest	-	-

3. Hazard Identification:

3.1 Hazard Description Irritating to eyes and skin.

4. First Aid Measures:

4.1 General Advice: Immediately remove contaminated clothing.
After Inhalation: -
After skin contact*: Wash skin with soap and water. In case of irritations seek medical advice.
After eye contact: Immediately flush eyes under running water with opened eyelid for at least 15 min. Obtain medical attention without delay from an oculist.
After swallowing*: Drink plenty of water. Do not induce vomiting. Seek medical advice.

5. Fire fighting measures:

5.1 suitable extinguishing agents: All current extinguishing agents suitable.

6. Accidental release measures:

6.1. Person related safety precautions: See first aid measures.

6.2. Measures for environmental protection: Do not allow to enter sewerage undiluted and unneutralised. Keep away from surface and ground water.

6.3. Measures for cleaning/collecting: Take up mechanically and dispose as considered at point 13.

6.4. Additional Information: Remove contaminated clothing and shoes.

7. Handling and storage:

7.1. Handling:

7.1.1* Information for safe handling: Wear protective gloves and protective goggles.

7.1.2 Information about protection Against explosions and fires: Product does not maintain combustion. Fight surrounding fire with the suitable extinguishing agents.

7.2. Storage:

7.2.1 Information about storing Conditions: Keep receptacles closed.

7.2.2*. Storage class: LGK 12 “L” (according VCI-Concept, German regulation)

8. Exposure controls and personal protection:

8.1. Components with limit values that require monitoring as the workplace:-

8.2. Personal protective equipment:

8.2.1 General protective and Hygienic Measures: The usual precautions with the handling of chemicals are to be observed.

8.2.2. Breathing equipment: -

8.2.3. Hand protection: Protective gloves.

8.2.4. Eye protection: Protective goggles.

8.2.5. Body protection: -

9. Physical and Chemical Properties:

9.1 Appearance.

9.1.1 Form: liquid.

9.1.2 Colour: clear, yellowish.

9.1.3 Odour: Weak characteristic odour.

9.2	Relevant safety data:	Value/Range	Unit
9.2.1	Change in condition:	-	-
9.2.1.1	Melting point/melting range:	- 6	° C
9.2.1.2	Boiling point/boiling range:	ca 100	° C
9.2.2	Flash Point:	-	° C
9.2.3	Density:	1,12	g/cm ³
9.2.4	Solubility/miscibility in water:	miscible	-
9.2.5	pH-range:	12,9	conc.
	pH value:	9,9	1% in water
9.2.6	Viscosity:	5,4	mPas-s
9.2.7	Solvent content:	-	%
9.3	Further information:	-	-
10.	Stability and Reactivity:		
10.1	Conditions to be avoided:	-	
10.2	Materials to be avoided:	strong acids.	
10.3	Dangerous products of decomposition:	-	
10.4	Further information:	do not mix with other Products.	
11.	Toxicological information:		
11.1	LD/LC50-values relevant for Classification:	-	
11.2	Primary irritant effects:	irritating to eyes, skin and mucous membrane.	
11.3	Sensitization:	-	
12.	Ecological information:		
12.1	Information on Elimination.		
	12.1.1 process:	-	
	12.1.2 Method of Analysis:	-	
	12.1.3 Degree of elimination:	> 90% according WRMG.	
	12.1.4 Assessment:	Biodegradable	
12.2*	General notes:	Water hazard class (German regulation): 2 (according VwVwS, from 17.05.00, app. 4, par. 3)	
13.	Disposal considerations:		
13.1*	Recommendation:	Disposal with approval of the responsible local authority. The used neutralised solution (max. 5%) can be let into the sewerage after dilution of 1 : 4 with water. The contained tensides are biodegradable.	
13.2*	Waste key number according to EWC (European waste catalogue):	070608 (valid only for the original composition). The classification has to be made according to the specific process and industrial branch.	

- 14. Transport information:**
Additional information: No dangerous good according to the transport Regulations.
- 15. Regulatory information:**
- 15.1 Marking according to EC guidelines**
- 15.1.1 code letter & hazard identification: Xi, irritant
- 15.1.2 Risk phrases R 36/38 Irritating to eyes and skin.
- 15.1.3* Safety phrases S 2 Keep out of reach of children.
S 26 In case of contact with eyes, rinse immediately with Plenty of water and seek medical advice.
S 37/39 Wear suitable gloves and eye/face protection.
- 15.2 National regulations.**
- 15.2.1* Water hazard class (German regulation): 2 (according VwVwS, from 17.05.99, app. 4, par 3)
- 15.2.2 Classification according to VbF: -
- 15.2.3 Other information: -
- 16. Other Information:**
- 16.1 Revision of safety data sheet**
- 16.1.1 Revised sections: 2.1., 4.1., 7.1.1., 7.2.2., 12.2., 13.1., 13.2., 15.1.3. 15.2.1
- 16.1.2 Date of revision: 18.05.00
- Revised sections are marked with *

This information is based on our current level of knowledge and declaration to the product in the state in which it is delivered. It is intended to describe our product from the point of view of safety requirements and is not intended to guarantee any particular properties.

TICKOPUR R 33

Gentle concentrated cleaning agent

Cleans and degreases complete machines and parts thereof, tools, glass and ceramics equipment in industry, trade and laboratories.

Tickopur R 33 has been especially designed for the cleaning in SONOREX ultrasonic cleaning units, as well as for cleaning by immersion or wiping. If used properly, a fast and gentle cleaning is guaranteed.

Tickopur R 33 removes:

Residues from grinding, polishing and lapping, dust, organic and inorganic sediments, hydrofluoric acids, contaminations with oils and greases

from

glass, ceramics, plastic, rubber, steel, precious and light metals

Concentration for use:

in the ultrasonic bath: 1 - 10% in water
by immersion or wiping: 1 - 10% in water

Concentration and time of application depend on type and degree of contamination. The cleaning process can be accelerated and better results can be achieved by heating up the cleaning solution to 60° - 80°C. After cleaning rinse parts thoroughly with running water.

Tickopur R 33 solution is slightly foaming. The foam does not have any effect on the cleaning, neither with ultrasound nor by wiping or immersing.

Parts made of zinc or tin may be attacked. We recommend to test the resistance of sensitive materials before cleaning.

Typical analytical data:

consistence:	clear, slightly viscous solution.
colour:	clear to slightly yellow.
spec. weight:	1,19 g/ml. Ph: 9 at 1%
solubility:	to be diluted with water in any given percentage.
odour:	weak characteristic smell.
flashing points:	none.

Reaction to temperature:

concentrate:	- 6°C - 80°C clear solution.
solution:	0°C - 90°C clear solution.

Content:

non-ionic tensides, special phosphates, silicate, complexing agents, anticorrosive agents in hydrous solution.

Disposal:

if the contaminations allow this, the solution can be led into the sewerage without any problems.

Biodegradable:	biodegradable acc. To "Verordnung über die Abbaubarkeit anionischer und nichtionischer grenzflächenaktiver Stoffe in Wasch und Reinigungsmitteln vom 30 Januar 1977" (Rules for biodegradability of anionic and non-ionic tensides in detergents of 30 th January 1977).						
Marking acc. to regulations:	acc. to "Gefahrenstoffverordnung vom 26.08.86" (Decree concerning dangerous materials of 26 th August 1986) und "Verordnung über den handel mit Giften vom 19 Aug 1980" (Decree concerning trade with poisons of 19 th August 1980) Tickopur R 33 does not have to be marked.						
First Aid:	<table> <tr> <td>swallowing:</td> <td>irritation of mucous membranes. When swallowed, drink plenty of water and consult doctor.</td> </tr> <tr> <td>eye contact:</td> <td>irritation possible, degreasing effect. Rinse with water and use rich cream.</td> </tr> <tr> <td>skin contact:</td> <td>irritation possible, degreasing effect. Rinse with water and use rich cream.</td> </tr> </table>	swallowing:	irritation of mucous membranes. When swallowed, drink plenty of water and consult doctor.	eye contact:	irritation possible, degreasing effect. Rinse with water and use rich cream.	skin contact:	irritation possible, degreasing effect. Rinse with water and use rich cream.
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Available sizes:	1, 5, 25 litres.						
Standard Packing:	12 x 1 L, 4 x 5 L, 34 x 5 L, 12 x 25 L, 24 x 25 L						
Hints for Transport:	none						

The data of this product information are meant as advice without obligation and are to be understood with reserve to changes without prior notice with regard to composition as well as changes of law or other safety regulations.

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