

1. * Identification of the product and the company

- 1.1. Identification of the product: trade name **TICKOPUR J 80U**
1.2. * Use of the preparation Deoxidation, ready for use.
1.3. Information about manufacturer/supplier
1.3.1 Manufacturer/supplier: **DR.H.STAMM GmbH** Heinrichstraße 3 - 4, D-12207 Berlin
1.3.2 Information department: Laboratory, tel.: +49-(0)30-768 80-250
1.4. Emergency: +49-(0)30-768 80-250

2. Composition/data on components

2.1. Chemical characterization (composition)

* CAS-No	EC-No	Chemical name	Weight.-%	Symbol	Risk phrases
* 62-56-6	200-543-5	Thiourea	<5,0	Xn, N	22-40-51/53-63
* 77-92-9	201-069-1	Citric acid	<1,0	Xi	36
* 7664-38-2	231-633-2	Phosphoric acid	<5,0	C	34
* 68439-50-9	---	C ₁₂ -C ₁₄ fatty alcohol, ethoxylated	<1,0	Xn, N	22-41-50
* 12645-31-7	235-741-0	Phosphoric acid-2-ethylhexylester	<0,2	C	34
* 7732-18-5	231-791-2	Water	Rest	---	---

3. Hazard identification

- 3.1. * Hazard description: Limited evidence of a carcinogenic effect. Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

4. First aid measures

- 4.1. General advice: Immediately remove contaminated clothing.
After inhalation: ---
After skin contact: Wash skin with plenty of soap and water.
After eye contact: Immediately flush eyes under running water with opened eyelid for at least 15 min. Obtain medical attention 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.
5.2. * Additional information: Product does not maintain combustion. Fight surrounding fire with the suitable extinguishing agents.

6. Accidental release measures

- 6.1. * Person related safety precautions: See point 8.2. Wear protective clothing. Keep away unprotected personnel.
6.2. Measures for environmental protection: Do not allow to enter sewerage. 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: Immediately 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: No special measures necessary.
7.2. Storage
7.2.1 Information about storing conditions: Keep receptacles closed.
* 7.2.2 Storage class: LGK 12 (non-combustible liquids, according VCI-concept, German regulation)

8. Exposure controls and personal protection

- 8.1. * Components with limit values that require monitoring at the workplace: Phosphoric acid: MAK: 1 mg/m³. This value is not relevant for the described solution in case of proper use. This information is based on the lists valid at the time of issue (OES, MEL, MAK, TRGS 900).
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. Keep away of foods, drinks and feeding stuffs. Wash hands before breaks and on finishing work.
* 8.2.2 Breathing equipment: Not required. No formation of aerosols within the application range.
* 8.2.3 Hand protection: Glove material: natural rubber, nitrile rubber, butyl rubber or PVC thickness: 0,4 mm, breakthrough time: >480 min.
8.2.4 Eye protection: Eye/face protection.
8.2.5 Body protection: ---

9. Physical and chemical properties

- 9.1. * Appearance Form: liquid Colour: clear, colourless to yellowish Odour: weak characteristic odour
9.2. Safety relevant data
9.2.1 Melting point/melting range: Value/Range Unit Method
9.2.2 Boiling point/boiling range: -10 °C
9.2.3 Flash point: ca. 100 °C
* 9.2.4 Density: --- °C
9.2.5 Solubility/miscibility in water: 1,038 g/cm³
* 9.2.6 pH-range: miscible
pH-range: 1,3 conc.
1 % in water

9.2.	Safety relevant data	Value/Range	Unit	Method
9.2.7	Viscosity:	---	mPas·s	
9.2.8	Solvent content:	---	%	
9.3.	Further information:	---		
10.	Stability and reactivity			
10.1.	Conditions to be avoided:	---		
10.2.	Materials to be avoided:	Alkalis and alkali metals.		
10.3.	Dangerous products of decomposition:	None, in case of proper use.		
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.*	Sensitisation:	No sensitising effect known.		
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 17.05.99, app. 4, par. 3)		
13.	Disposal considerations			
13.1.*	Recommendation:	Disposal with approval of the responsible local authority. The contained tensides are biodegradable.		
13.2.*	Waste key number according to EWC (European waste catalogue):	The classification has to be made according EWC in regard to the specific process and industrial branch.		
14.	Transport information			
*		No dangerous good according to transport regulations.		
15.	Regulatory information			
15.1.*	Marking according 67/548/EEC and 1999/45/EC:			
15.1.1	Code letter and hazard identification:	Xn Harmful		
* 15.1.2	Risk phrases	R 40 Limited evidence of a carcinogenic effect. R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.		
15.1.3	Safety phrases	S 2 Keep out of reach of children. S 24 Avoid contact with skin S 37/39 Wear suitable gloves and eye/face protection. S 46 If swallowed, seek medical advice immediately and show this container or label.		
* 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	Other information:	---		
16.	Other information			
16.1.	Revision of safety data sheet			
16.1.1	Revised sections:	1., 1.2., 1.4., 2.1., 3.1., 4.1., 5.2., 6.1., 7.1.1., 7.1.2., 7.2.2., 8.1., 8.2.1., 8.2.2., 8.2.3., 9.1., 9.2.4., 9.2.6., 11.3., 13.1., 13.2., 14., 15.1., 15.1.2., 15.1.3., 16.1.3., 16.1.4.		
16.1.2	Date of revision: Revised sections are marked with *.	22.09.2004		
* 16.1.3	Full text of the Risk Phrases referred to under point 2.1.	22: Harmful if swallowed. 34: Causes burns. 36: Irritating to eyes. 40: Limited evidence of a carcinogenic effect. 41: Risk of serious damage to eyes. 50: Very toxic to aquatic organisms. 51/53: Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. 63: Possible risk of harm to the unborn child.		
* 16.1.4	Training advice: use only according to the product specifications. Further information for the appropriate use is indicated on the label or in the product information.			

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.