SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

TICKOPUR J 80U

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

Use of the substance/mixture

Cleaning agent. Deoxidisation, ready for use.
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 number:

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:
Carcinogenicity: Carc. 2
Reproductive toxicity: Repr. 2
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
Suspected of causing cancer.
Suspected of damaging the unborn child.
Harmful to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

thiocarbamide, thiourea

Signal word: Warning

Pictograms:

Hazard statements

H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H412	Harmful to aquatic life with long lasting effects.

Precautionary statements

P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P308+P313	IF exposed or concerned: Get medical advice/attention.
P405	Store locked up.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
7732-18-5	Water			70-80 %
	213-791-2			
62-56-6	thiocarbamide, thiourea			<5,0 %
	200-543-5	612-082-00-0	01-2119977062-37	
	Carc. 2, Repr. 2, Acute Tox. 4, Aquatic Chronic 2; H351 H361d H302 H411			
7664-38-2	Phosphoric acid ... %; orthophosphoric acid			<5,0 %
	231-633-2	015-011-00-6	01-2119485924-24	
	Skin Corr. 1B; H314			
5949-29-1	Citric acid			<1,0 %
	201-069-1		01-2119457026-42	
	Eye Irrit. 2; H319			
68439-50-9	C12-C14 Fatty alcohol ethoxylate			<1,0 %
	-		*	
	Acute Tox. 4, Eye Dam. 1, Aquatic Chronic 3; H302 H318 H412			
12645-31-7	Phosphoric acid-2 ethylhexylester			<0,2 %
	235-741-0		01-2119896587-13	
	Skin Corr. 1B; H314			

Full text of H and EUH statements: see section 16.

Further Information

*Polymer

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Take off immediately all contaminated clothing.

After inhalation

Provide fresh air.

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 opthalmologist.

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 (NOx). Carbon dioxide (CO_2). Sulfur oxides. Phosphorus oxides.

5.3. Advice for firefighters

Protective clothing.

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

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

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

Product is not: Oxidizing. Flammable. explosive.

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

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m³	fibres/ml	Category	Origin
7664-38-2	Orthophosphoric acid	-	1		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance			
DNEL type		Exposure route	Effect	Value
62-56-6	thiocarbamide, thiourea			
Consumer DNEL, long-term		oral	systemic	0,1 mg/kg bw/day
Worker DNEL, long-term		dermal	systemic	3,4 mg/kg bw/day
Consumer DNEL, long-term		dermal	systemic	1,7 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	1 mg/m³
Consumer DNEL, long-term		inhalation	systemic	0,2 mg/m³
7664-38-2	Phosphoric acid ... %; orthophosphoric acid			
Worker DNEL, long-term		inhalation	systemic	10,7 mg/m³
Worker DNEL, long-term		inhalation	local	1 mg/m³
Worker DNEL, acute		inhalation	local	2 mg/m³

PNEC values

CAS No	Substance	
Environmental compartment		Value
62-56-6	thiocarbamide, thiourea	
Freshwater		0,01 mg/l
Marine water		0,001 mg/l
Freshwater sediment		0,0725 mg/kg
Micro-organisms in sewage treatment plants (STP)		0,38 mg/l
Soil		2,725 mg/kg

8.2. Exposure controls

Appropriate engineering controls

Refer to chapter 7. No further action is necessary.

Protective and hygiene measures

Do not eat, drink, smoke or sneeze at the workplace. Wash hands before breaks and at the end of work.

Eye/face protection

Wear eye/face protection.

Hand protection

Suitable material: PE (polyethylene). CR (polychloroprenes, Chloroprene rubber). NBR (Nitrile rubber). Butyl rubber. FKM (Fluoroelastomer (Viton)).
Tested protective gloves are to be worn: EN 374

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, light yellow
Odour:	characteristic

		Test method
pH-Value (at 20 °C):	1,3	DGF H-III 1

Changes in the physical state

Melting point:	-10 °C	
Initial boiling point and boiling range:	>100 °C	
Flash point:	---	

Explosive properties
not Explosive.

Oxidizing properties
not oxidizing.

Density (at 20 °C):	1,038 g/cm³	DIN 12791
Water solubility:	complete miscible	

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.

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 toxicological effects

Acute toxicity
Based on available data, the classification criteria are not met.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
62-56-6	thiocarbamide, thiourea				
	oral	LD50 1750 mg/kg	rat		
	dermal	LD50 2800 mg/kg	rabbit		
5949-29-1	Citric acid				
	oral	LD50 5400 mg/kg	mouse		OECD 401
	dermal	LD50 >2000 mg/kg	rat		
68439-50-9	C12-C14 Fatty alcohol ethoxylate				
	oral	LD50 >2000 mg/kg	rat		Cesio-Recommendation
12645-31-7	Phosphoric acid-2 ethylhexylester				
	oral	LD50 >2000 mg/kg	Ratte		

Irritation and corrosivity

Based on available data, the classification criteria are not met.
Irritant effect on the eye: irritant. 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

Suspected of causing cancer. (thiocarbamide, thiourea)
Suspected of damaging the unborn child. (thiocarbamide, thiourea)
Germ cell mutagenicity: Based on available data, the classification criteria are not met.
Limited evidence of a carcinogenic effect.

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

12.1. Toxicity

Harmful to aquatic organisms.

CAS No	Chemical name						
	Aquatic toxicity	Dose		[h] | [d]	Species	Source	Method
62-56-6	thiocarbamide, thiourea						
	Acute fish toxicity	LC50	>10 mg/l	96 h	Leuciscus idus		
	Acute crustacea toxicity	EC50	1,8 mg/l	48 h	Daphnia magna		
	Crustacea toxicity	NOEC	0,25 mg/l	21 d			
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		
5949-29-1	Citric acid						
	Acute fish toxicity	LC50	440 mg/l	96 h	Leuciscus idus		OECD 203
	Acute crustacea toxicity	EC50	1535 mg/l	48 h	Daphnia magna		
68439-50-9	C12-C14 Fatty alcohol ethoxylate						
	Algea toxicity	NOEC	<1 mg/l				
12645-31-7	Phosphoric acid-2 ethylhexylester						
	Acute fish toxicity	LC50	189-355 mg/l	96 h	Danio rerio		

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			
5949-29-1	Citric acid			
	OECD 302 B	>98 %	2	
	easily biodegradable			
68439-50-9	C12-C14 Fatty alcohol ethoxylate			
	OECD 301F	>60 %	28	
	easily biodegradable			
12645-31-7	Phosphoric acid-2 ethylhexylester			
	OECD 301 B	>60 %		
	easy biodegradable			
	OECD 302 B	74 %	28	
	OECD 301 D	82 %	21	

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

not applicable

12.6. Other adverse effects

No data available

SECTION 13: Disposal considerations

13.1. Waste treatment methods

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. Waste disposal according to official state regulations.

Waste disposal number of waste from 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

Waste disposal number of 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

2004/42/EC (VOC): 0 % (0g/l)

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

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: 2.1., 3.2., 8.1., 9.1., 11.1., 12.1., 12.2., 13.1., 15.1., 16.

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

Classification	Classification procedure
Carc. 2; H351	Calculation method
Repr. 2; H361d	Calculation method
Aquatic Chronic 3; H412	Calculation method

Relevant H and EUH statements (number and full text)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H411	Toxic to aquatic life with long lasting effects.
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 present level of our knowledge. It does not, however, give assurances of product properties and establishes no contract legal rights.

Identified uses

No	Short title	LCS	SU	PC	PROC	ERC	AC	TF	Specification
1	TICKOPUR J 80 U	IS, PW	0	35	8a, 9, 13	8b	0	26	

LCS: Life cycle stages
SU: Sectors of use
PC: Product categories
PROC: Process categories
ERC: Environmental release categories
AC: Article categories
TF: Technical functions

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