

**TICKOPUR J 80 U**

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

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UFI: 1V00-70P1-M005-FQK8

**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****GB CLP Regulation**

Carc. 2; H351  
Repr. 2; H361d  
Aquatic Chronic 3; H412

Full text of hazard statements: see SECTION 16.

**2.2. Label elements****GB CLP Regulation****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.

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## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

#### Hazardous components

| CAS No     | Chemical name   |              |                  | Quantity |
|------------|---|--------------|------------------|----------|
|            | EC No   | Index No     | REACH No         |          |
|            | Classification (GB CLP Regulation)                                      |              |                  |          |
| 7732-18-5  | Water   |              |                  | 70-80 %  |
|            | 231-791-2   |              |                  |          |
| 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, STOT SE 3; H319 H335                                      |              |                  |          |
| 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.

#### Specific Conc. Limits, M-factors and ATE

| CAS No     | EC No     | Chemical name   | Quantity |
|------------|-----------|---|----------|
|            |           | Specific Conc. Limits, M-factors and ATE  |          |
| 62-56-6    | 200-543-5 | thiocarbamide, thiourea   | <5,0 %   |
|            |           | dermal: LD50 = 2800 mg/kg; oral: LD50 = 1750 mg/kg  |          |
| 7664-38-2  | 231-633-2 | Phosphoric acid ... %; orthophosphoric acid   | <5,0 %   |
|            |           | Skin Corr. 1B; H314: >= 25 - 100 Skin Irrit. 2; H315: >= 10 - < 25 Eye Irrit. 2; H319: >= 10 - < 25 |          |
| 5949-29-1  | 201-069-1 | Citric acid   | <1,0 %   |
|            |           | dermal: LD50 = >2000 mg/kg; oral: LD50 = >3000 mg/kg  |          |
| 68439-50-9 | -         | C12-C14 Fatty alcohol ethoxylate  | <1,0 %   |
|            |           | oral: LD50 = <2000 mg/kg  |          |
| 12645-31-7 | 235-741-0 | Phosphoric acid-2 ethylhexylester   | <0,2 %   |
|            |           | oral: LD50 = 2500 mg/kg   |          |

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

< 5 % non-ionic surfactants.

#### Further Information

\*Polymer

## SECTION 4: First aid measures

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**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 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 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 (CO2). 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****General advice**

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****Other information**

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**

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#### Advice on safe handling

No special technical protective measures are necessary.

#### Advice on protection against fire and explosion

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 at the end of work.

#### 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/m <sup>3</sup> | 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                                   | 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/m <sup>3</sup>     |
|            | Consumer DNEL, long-term                    | inhalation     | systemic | 0,2 mg/m <sup>3</sup>   |
| 7664-38-2  | Phosphoric acid ... %; orthophosphoric acid |                |          |                         |
|            | Worker DNEL, long-term                      | inhalation     | systemic | 10,7 mg/m <sup>3</sup>  |
|            | Worker DNEL, long-term                      | inhalation     | local    | 1 mg/m <sup>3</sup>     |
|            | Worker DNEL, acute                          | inhalation     | local    | 2 mg/m <sup>3</sup>     |
| 12645-31-7 | Phosphoric acid-2 ethylhexylester           |                |          |                         |
|            | Consumer DNEL, long-term                    | oral           | systemic | 6,25 mg/kg bw/day       |
|            | Worker DNEL, long-term                      | dermal         | systemic | 10,42 mg/kg bw/day      |
|            | Consumer DNEL, long-term                    | dermal         | systemic | 6,25 mg/kg bw/day       |
|            | Worker DNEL, long-term                      | inhalation     | systemic | 36,73 mg/m <sup>3</sup> |
|            | Consumer DNEL, acute                        | inhalation     | systemic | 10,87 mg/m <sup>3</sup> |

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#### PNEC values

| CAS No   | Substance                         | Value        |
|--|-----------------------------------|--------------|
| Environmental compartment                        |                                   |              |
| 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  |
| 12645-31-7                                       | Phosphoric acid-2 ethylhexylester |              |
| Freshwater                                       |                                   | 0,049 mg/l   |
| Marine water                                     |                                   | 0,0015 mg/l  |
| Marine sediment                                  |                                   | 0,35 mg/kg   |
| Micro-organisms in sewage treatment plants (STP) |                                   | 15 mg/l      |

#### 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 eye/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 characteristics of the material must be taken into consideration.

Recommended protective gloves brand: Camapren 722, Manufacturer: KCL, or comparable makes from other companies.

##### 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

Melting point/freezing point: -10 °C  
 Boiling point or initial boiling point and boiling range: >100 °C

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

Water solubility: complete miscible  
 Density (at 20 °C): 1,039 g/cm<sup>3</sup> DIN 12791

#### Test method

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#### 9.2. Other information

##### Information with regard to physical hazard classes

Explosive properties

not Explosive.

Oxidizing properties

not oxidizing.

### 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 hazard classes as defined in GB CLP Regulation

##### Acute toxicity

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

##### ATEmix calculated

ATE (oral) 35714,3 mg/kg

| CAS No     | Chemical name                     |                     |         |        |                      |
|------------|-----------------------------------|---------------------|---------|--------|----------------------|
|            | Exposure route                    | Dose                | Species | Source | Method               |
| 62-56-6    | thiocarbamide, thiourea           |                     |         |        |                      |
|            | oral                              | LD50<br>mg/kg 1750  | rat     |        |                      |
|            | dermal                            | LD50<br>mg/kg 2800  | rabbit  |        |                      |
| 5949-29-1  | Citric acid                       |                     |         |        |                      |
|            | oral                              | LD50<br>mg/kg >3000 | rat     | Gestis | OECD 401             |
|            | dermal                            | LD50<br>mg/kg >2000 | rat     | ECHA   | OECD 402             |
| 68439-50-9 | C12-C14 Fatty alcohol ethoxylate  |                     |         |        |                      |
|            | oral                              | LD50<br>mg/kg <2000 | rat     |        | Cesio-Recommendation |
| 12645-31-7 | Phosphoric acid-2 ethylhexylester |                     |         |        |                      |
|            | oral                              | LD50<br>mg/kg 2500  | rat     | MSDS   |                      |

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**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 life with long lasting effects.

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 mg/l 0,25    | 21 d      |                         |        |           |
| 7664-38-2  | Phosphoric acid ... %; orthophosphoric acid |                   |           |                         |        |           |
|            | Acute fish toxicity                         | LC50 138 mg/l     | 96 h      | Gambusia affinis        |        |           |
|            | Acute algae toxicity                        | ErC50 mg/l >100   | 72 h      | Desmodesmus subspicatus |        |           |
|            | Acute crustacea toxicity                    | EC50 mg/l >100    | 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 mg/l 1535    | 48 h      | Daphnia magna           |        |           |
|            | Algae toxicity                              | NOEC 425 mg/l     | 8 d       | Algae                   | ECHA   |           |
| 12645-31-7 | Phosphoric acid-2 ethylhexylester           |                   |           |                         |        |           |
|            | Acute fish toxicity                         | LC50 mg/l 189-355 | 96 h      | Danio rerio             |        | OECD 203A |

**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.

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| CAS No     | Chemical name                     |       |    |        |
|------------|-----------------------------------|-------|----|--------|
|            | Method                            | Value | d  | Source |
|            | Evaluation                        |       |    |        |
| 5949-29-1  | Citric acid                       |       |    |        |
|            | OECD 301 B                        | 97 %  | 28 |        |
|            | 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

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. Waste disposal according to official state regulations.

##### 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

#### Other applicable information

Not a hazardous material with respect to transportation regulations.



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#### 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, Entry 75

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

###### National regulatory information

Water hazard class (D): 3 - highly 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: 1.1., 1.4., 2.1., 3.2., 7.1., 8.2., 9.1., 9.2., 11.1., 12.1., 12.2., 12.5., 12.6., 12.7., 15.1., 16.

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

| 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.                     |
| H335  | May cause respiratory 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 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 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.)*