

Safety Data Sheet

Printing date: 14.01.2002
Revision date: 22.08.2001
Company:
Product:

according to 93/112/EC
EMAG AG
EM-100 Entoxitation TICKOPUR J 80U

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No.: 8280e-3

1. Identification of the substance/product of the company

- 1.1. Identification of the product/trade name **TICKOPUR J 80U**
1.2. Information about manufacturer/supplier

1.2.1 Supplier: **EMAG AG Gerauerstr. 34 , D-64526 Mörfelden-Walldorf**

1.2.2 Information department: Laboratory, tel.: +49-(0)30-768 80-250 Dr. H. Stamm GmbH
1.2.3 Emergency: +49-(0)30-768 80-250

2. Composition/data on components

2.1. Chemical characterization (composition)

| CAS-No | Chemical name | Weight.-% | Symbol | Risk phrase |
|------------|------------------------------------|-----------|--------|----------------|
| 62-56-6 | Thiourea | <5,0 | Xn, N | 22-40-51/53-63 |
| 77-92-9 | Citric acid | <1,0 | Xi | 36 |
| 7664-38-2 | Phosphoric acid | <5,0 | C | 34 |
| 68439-50-9 | C12-C14 fatty alcohol, ethoxylated | <1,0 | Xn, N | 22-41-50 |
| 12645-31-7 | Phosphoric acid-2-ethylhexylester | <0,2 | C | 34 |
| 7732-18-5 | Water | Rest | --- | --- |

3. Hazard identification

3.1. Hazard description: Possible risk of irreversible effects. 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 without delay from an oculist.
After swallowing: Drink plenty of water. Do not induce vomiting. Obtain medical attention without delay.

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. 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 eye/face protection.
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 (according VCI-concept, German regulation)

8. Exposure controls and personal protection

8.1. Components with limit values that require monitoring at 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 rubber gloves.
8.2.4 Eye protection: Eye/face protection.
8.2.5 Body protection: ---

9. Physical and chemical properties

9.1. Appearance
9.1.1 Form: liquid
9.1.2 Colour: clear, colourless to yellowish
9.1.3 Odour: weak characteristic odour

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9.2. Safety relevant data Value/Range Unit Method

| | | |
|--|----------|-------------------|
| 9.2.1 Change in condition | | |
| 9.2.1.1 Melting point/melting range: | -10 | °C |
| 9.2.1.2 Boiling point/boiling range: | app. 100 | °C |
| 9.2.2 Flash point: | --- | °C |
| 9.2.3 Density: | 1,028 | g/cm ³ |
| 9.2.4 Solubility/miscibility in water: | miscible | |
| 9.2.5 pH-range: | 1,6 | conc. |
| pH-range: | --- | 1 % in water |
| 9.2.6 Viscosity: | --- | 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: | Alkalis, 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. Sensitization: | Possibility of sensitization caused by component thiourea. |

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. Small amounts up to 500 ml can be let into the sewerage after a dilution of 1 : 15 with water. Greater amounts have to be disposed as special waste. 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

| | | | | | | |
|-------|-------------------------|---|---------------|------|--|----------------------------|
| ADR: | Class: | Item.: | UN | | | |
| | Proper name: | | | | | |
| IMDG: | Class: | Page: | UN Pack. gr.: | EMS: | | MFAG: marine pollutant: no |
| | Proper shipping name: | | | | | |
| | Additional information: | No dangerous good according to transport regulations. | | | | |

15. Regulatory information

| | |
|--|--|
| 15.1. Marking according to EC guidelines | |
| 15.1.1 Code letter and hazard identification: | Xn, harmful |
| 15.1.2 Risk phrases | R 40 Possible risk of irreversible effects. 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. |
| 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: 1.2.3., 2.1., 7.2.2., 8.2.3., 9.1.3., 9.2.3., 9.2.5., 10.3., 11.3., 13.1. | |
| 16.1.2 Date of revision: 22.08.2001 | |

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.