

# Material Safety Data Sheet

## According to 91/155 EC



Printing date 28.02.2003

Reviewed on 20.03.2001

### 1 Identification of substance

- **Product details**

- **Trade name:** SurTec 307 I

- **Article number(s):** 4498

- **Manufacturer / Supplier:**

SurTec Produkte und Systeme für  
die Oberflächenbehandlung GmbH  
SurTec-Straße 2  
D-64673 Zwingenberg

Tel. : +49-6251-171-700  
Fax : +49-6251-171-800  
e-mail: mail@surtec.com  
internet: www.surtec.com

- **Informing department:**

Technical central  
Tel.: +49-6251-171-700, Fax: +49-6251-171-800

- **Emergency information:** Poison Information Mainz (Germany), Tel.: +49-6131-19240

### 2 Composition/Data on components

- **Chemical characterization:** Mixture of the substances listed below with (harmless) additions.

- **Dangerous components:**

thiocarbamide 3 - 7%  
Xn, N; R 22-40-51/53-63

- **Application:** Grain Refiner for Strip Plating

### 3 Hazards identification

- **Hazard designation:**



Xn Harmful

- **Information pertaining to particular dangers for man and environment:**

R 40 Limited evidence of a carcinogenic effect.

- **Classification system:**

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

### 4 First aid measures

- **General information:** Instantly remove any clothing soiled by the product.

- **after inhalation:** Supply fresh air and call for doctor for safety reasons.

- **after skin contact:**

The product is not skin irritating.  
Rinse with warm water.

- **after eye contact:**

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

- **after swallowing:** Drink copious amounts of water and provide fresh air. Instantly call for doctor.

### 5 Fire fighting measures

- **Suitable extinguishing agents:** Use fire fighting measures that suit the environment.

- **Protective equipment:** Do not inhale explosion gases or combustion gases.

### 6 Accidental release measures

- **Person-related safety precautions:**

Keep people at a distance and stay on the windward side.

Ensure adequate ventilation.

Use breathing protection against the effects of fumes/dust/aerosol.

(Contd. on page 2)

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(Contd. of page 1)

- **Measures for environmental protection:**
  - Damp down gases/fumes/haze with water spray jet.
  - Do not allow to enter drainage system, surface or ground water.
  - Inform respective authorities in case product reaches water or sewage system.
- **Measures for cleaning/collecting:**
  - Ensure adequate ventilation.
  - Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

## 7 Handling and storage

- **Handling**
- **Information for safe handling:**
  - Keep containers tightly sealed.
  - Ensure good ventilation/exhaustion at the workplace.
  - Open and handle container with care.
  - Prevent formation of aerosols.
- **Information about protection against explosions and fires:** The product is not flammable.
- **Storage**
- **Requirements to be met by storerooms and containers:** Provide floor trough without outlet.
- **Information about storage in one common storage facility:** Store away from foodstuffs.
- **Further information about storage conditions:** Keep container tightly sealed.

## 8 Exposure controls and personal protection

- **Components with critical values that require monitoring at the workplace:**
  - The product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.
- **Additional information:** The lists that were valid during the compilation were used as basis.
- **Personal protective equipment**
- **General protective and hygienic measures:**
  - Keep away from foodstuffs, beverages and food.
  - Wash hands during breaks and at the end of the work.
  - Use skin protection cream for preventive skin protection.
  - Instantly remove any soiled and impregnated garments.
  - Do not inhale gases/fumes/aerosols.
- **Breathing equipment:** Breathing protection recommended.
- **Protection of hands:** Rubber gloves
- **Eye protection:** Tightly sealed safety glasses
- **Body protection:** Protective work clothing

## 9 Physical and chemical properties

- **General Information**

|                |                     |
|----------------|---------------------|
| <b>Form:</b>   | liquid              |
| <b>Colour:</b> | colourless<br>clear |
| <b>Odour:</b>  | sulphurous          |
- **Change in condition**
  - Boiling point/Boiling range:** > 100°C
- **Flash point:** not applicable
- **Danger of explosion:** Product is not explosive.
- **Steam pressure at 20°C:** 23 mbar
- **Density at 20°C:** 1.012 g/cm<sup>3</sup>
- **Solubility in / Miscibility with Water:** fully miscible

(Contd. on page 3)

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(Contd. of page 2)

- pH-value at 20°C: 4.6
- Viscosity: fluid, watery

### 10 Stability and reactivity

- **Thermal decomposition / conditions to be avoided:**  
No decomposition if used and stored according to specifications.
- **Dangerous reactions:** No dangerous reactions known.
- **Dangerous products of composition:** No dangerous decomposition products known.

### 11 Toxicological information

- **Acute toxicity**
- **LD/LC50 values that are relevant for classification:**  
thiocarbamide  
Oral LD50 125 mg/kg (rat)
- **Primary irritant effect:**
- **on the skin:** No irritant effect.
- **on the eye:** No irritant effect.
- **Additional toxicological information:**  
The product shows the following dangers according to the calculation method of the General EC Classification Guidelines for Preparations as issued in the latest version:  
Harmful

### 12 Ecological information

- **General notes:**  
Do not allow product to reach ground water, water bodies or sewage system, even in small quantities.  
Danger to drinking water if even extremely small quantities leak into soil.

### 13 Disposal considerations:

- **Product:**
- **Recommendation:**  
After prior treatment product has to be landfilled or incinerated under adherence to the regulations pertaining to the disposal of especially hazardous waste.
- **Waste disposal key number:**  
Suggestion according to the Euroean Waste Catalogue (EWC):  
11 01 09, sludges and filter cakes containing dangerous substances  
11 01 11, aqueous rinsing liquids containing dangerous substances  
The mentioned waste codes are recommendations based on the product application as suggested by the manufacturer. Special applications and special disposal conditions at the applier's place may however require another waste code.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

### 14 Transport information:

- **Land transport ADR/RID (cross-border)**
- **ADR/RID Class:** -
- **Maritime transport IMDG**
- **IMDG Class:** -
- **Air transport ICAO-TI and IATA-DGR**
- **ICAO/IATA Class:** -
- **Additional information:** No dangerous goods in accordance with the above orders.

(Contd. on page 4)

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(Contd. of page 3)

### 15 Regulatory information

- **Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV).

- **Code letter and hazard designation of product:**



Xn Harmful

- **Hazard-determining component(s) of labelling:**

thiocarbamide

- **Risk phrases:**

40 Limited evidence of a carcinogenic effect.

- **Safety phrases:**

36/37 Wear suitable protective clothing and gloves.

- **National regulations**

- **Additional classification according to Decree on Hazardous Materials, Annex II:**

Can cause cancer.

- **Information about limitation of use:** Observe GefStoffV § 15.

- **Water hazard class:** Water hazard class 2 (Self-assessment): hazardous for water

### 16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

- **Relevant R-phrases**

22 Harmful if swallowed.

40 Limited evidence of a carcinogenic effect.

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.

- **Department issuing MSDS:** Product Safety Department

- **Contact:**

Mr. Dipl.-Chem. B. Höferth, Tel.: +49-6251-171-754

Mr. Dipl.-Ing. O. Penz, Tel.: +49-6251-171-725 (Deputy)

- **Output nr.:** 2 - Replaced MSDS from 16/02/1996

- **Reviewed:**

Water hazard class

Informations about dangerous components

Properties

Changes have been signficated with a "\*" on the left side of the sheet.