



# Safety Data Sheet

based on Regulation (EC) No 1907/2006

Revision date: 15.11.2019  
Date of entry into force: 15.11.2019

Version: 5  
Replace version: -

## Chloramin T-Lysoform

This is the English translation of the German SDS (for Germany).  
The product is a medicinal product, there is no requirement for a safety data sheet. It was created  
for our customers on a voluntary basis.

### Section 1: Identification of the substance/mixture and of the company/undertaking

#### 1.1 Product identifier

Trade name: Chloramin T-Lysoform

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

Use of the mixture:  
Hands disinfectant

#### 1.3 Details of the supplier of the safety data sheet

Department providing information: Department of Science and Technology Berlin

E-mail: [kontakt@lysoform.de](mailto:kontakt@lysoform.de)  
Telephone: +49 30 77992-216

**Supplier (distributor):**  
Lysoform Dr. Hans Rosemann GmbH  
Kaiser-Wilhelm-Str. 133  
D-12247 Berlin  
Tel.: +49 30 / 77992-0  
Fax: +49 30 / 77992-219  
[www.lysoform.de](http://www.lysoform.de)

#### 1.4 Emergency telephone number Germany

Munich toxicological department  
Klinikum rechts der Isar  
Ismaninger Str. 22, 81675 Muenchen  
Tel.: +49 89 19240  
Fax: +49 89 4140-2467



# Safety Data Sheet

based on Regulation (EC) No 1907/2006

Revision date: 15.11.2019  
Date of entry into force: 15.11.2019

Version: 5  
Replace version: -

## Chloramin T-Lysoform

### Section 2: Hazards identification

#### 2.1 Classification of the substance or mixture

**Hazards:**

Harmful if swallowed  
Concentrate causes burns.  
May cause sensitization by inhalation.  
In contact with acid, develops toxic gases.

#### 2.2 Label elements

Symbol und signal word:



**Danger**

#### 2.3 Other hazards

The mixture does not meet the criteria for classification as PBT or vPvB.

### Section 3: Composition/information on ingredients

#### 3.1 Substances

**Tosylchloramide sodium 3 H<sub>2</sub>O**

EG-No: 204-854-7 CAS-No: 7080-50-4

Quantity : 100 %

Acute oral toxicity: Cat.4 H302 - Harmful if swallowed.

Respiratory sensitization: Cat.1 H334 - May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Skin corrosion: Cat.1B H314 - Causes severe skin burns and eye damage.

EUH 031 Contact with acids liberates toxic gas.

### Section 4: First aid measures

#### 4.1 Description of first aid measures

**General information:**

Always consult a doctor. Show the Safety Data Sheet, container or label.

**Inhalation:**

Fresh air, rest, loosen clothes. Respiratory aid for breathing difficulties. If heavily inhaled, medical treatment is required.

**Skin contact:**

Remove contaminated clothing immediately. Wash affected areas with plenty of soap and water. Wash clothing before further use.



# Safety Data Sheet

based on Regulation (EC) No 1907/2006

Revision date: 15.11.2019  
Date of entry into force: 15.11.2019

Version: 5  
Replace version: -

## Chloramin T-Lysoform

### Eye contact:

Immediately with eyes wide open, rinse with plenty of water for at least 10 minutes. To ensure successful rinsing, the eyelids must be spread away from the eyeball.

### Ingestion:

Only when conscious: rinse mouth. Give plenty of water to drink. DO NOT induce vomiting.

### 4.2 Most important symptoms and effects, both acute and delayed

Acute: mucosal irritation and corrosion

### 4.3 Indication of any immediate medical attention and special treatment needed

No information

## Section 5: Firefighting measures

### 5.1 Extinguishing media

Powder, water spray or foam.

### 5.2 Special hazards arising from the substance or mixture

During heating or in case of fire poisonous gas may develop:

For example: Hydrochloric acid (HCl), nitrous gases (NO<sub>x</sub>) and sulfur dioxide (SO<sub>2</sub>)

### 5.3 Advice for firefighters

Wear self-contained breathing apparatus. Wear fully protective suit.

## Section 6: Accidental release measures

### 6.1 Personal precautions, protective equipment and emergency procedures

Do not inhale dust. Avoid contact with eyes and skin. For personal protection information, see section 8.

### 6.2 Environmental precautions

Do not allow to reach sewage system / surface or ground water.

### 6.3 Methods and material for containment and cleaning up

Collect as much as possible in a container for disposal. Rinse off the rest with water.

### 6.4 Reference to other sections

Safe handling (section 7), personal protective equipment (section 8) and disposal considerations (section 13)



# Safety Data Sheet

based on Regulation (EC) No 1907/2006

Revision date: 15.11.2019  
Date of entry into force: 15.11.2019

Version: 5  
Replace version: -

## Chloramin T-Lysoform

### Section 7: Handling and storage

#### 7.1 Precautions for safe handling

**Notes for safe handling:**

Ensure good ventilation / exhaustion at the workplace.

**Notes on general hygiene measures at the workplace:**

Keep away from food. Take off all contaminated clothing immediately. Avoid contact with eyes.

#### 7.2 Conditions for safe storage, including any incompatibilities

**Requirements for storage rooms and containers**

Store cool but frost-free, well ventilated, dry and out of reach of children.

Keep container tightly closed.

**Further information about storage conditions**

Keep separate from food.

**Storage class:** 8B (TRGS 510) for Germany

#### 7.3 Specific end use(s)

No specific end use known.

### Section 8: Exposure controls/personal protection

#### 8.1 Control parameters

No

#### 8.2 Exposure controls

**Individual protection measures - Personal protective equipment:**

**General health and safety measures**

Keep away from foodstuff, beverages and feed. Take off all contaminated clothing immediately. Wash hands before breaks and at end of work. Avoid contact with skin and eyes.

**Respiratory protection**

If dust is formed, wear a dust mask (respirator with filter P2).

**Hand protection**

Impermeable gloves when handling the powder.

The wearing of liquid-tight gloves, without changing over four hours daily, is to be regarded as stressful and may not be a permanent measure.

**Penetration time of glove material**

The resistance of gloves is dependent on many features (material, layer thickness, manufacturer, temperature, stress and duration of contact) and not predictable in advance. Each user has to test the resistance of the gloves for his personal use. Penetration times according to EN 374 are specified by manufacturers and provide guidance for the comparison of gloves.

**Material recommendations**

Nitrile rubber

Butyle rubber



# Safety Data Sheet

based on Regulation (EC) No 1907/2006

Revision date: 15.11.2019  
Date of entry into force: 15.11.2019

Version: 5  
Replace version: -

## Chloramin T-Lysoform

### Skin protection

Protective clothing

In order to prevent skin irritations in the professional field, the following is - regardless of the actual contact with disinfectants - recommended:

- Fast skin penetrating care cream in between if needed.
- A greasy cream after washing at the end of work or before work breaks.

### Eye / face protection

When handling the concentrated product, use tight-fitting eye protection. If there is no risk of splashing, no eye protection is required when using the diluted product.

## Section 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance

- Physical state: Hard, fine powder

- colour: White

Odour: Characteristic, weak after chlorine

Auto-ignition temperature: 176 °C

pH (50 g/l H<sub>2</sub>O) at 20 °C: ca. 8

Density at 20 °C: 1430 kg/m<sup>3</sup>

Bulk density: 0.7 g/ml ± 0.1

Solubility in water: 150 g/l (25 °C)

Oxidising properties: Not determined, has an oxidizing effect

## Section 10: Stability and reactivity

### 10.1 Reactivity

Has an oxidizing effect.

### 10.2 Chemical stability

No decomposition if stored and used as described. In contact with water vapor unstable. In contact with acid, develops toxic gases.

### 10.3 Possibility of hazardous reactions

No hazardous reactions if used as described.

### 10.4 Conditions to avoid

See section 7

### 10.5 Incompatible materials

Water vapour, acids

### 10.6 Hazardous decomposition products

No decomposition if used as described. If decompose: Chlorine, carbon dioxide, carbon monoxide, hydrogen chloride, nitrogen oxides, sulfur oxides, sodium oxide



# Safety Data Sheet

based on Regulation (EC) No 1907/2006

Revision date: 15.11.2019  
Date of entry into force: 15.11.2019

Version: 5  
Replace version: -

## Chloramin T-Lysoform

### Section 11: Toxicological information

Acute toxicity:

Oral LD50: rat, mouse: approx. 1000 mg / kg

Inhalation LC50: Rat: > 0.275 mg / l (4 hours) (maximum achievable concentration)

Irritation:

Skin: Moisturizing powder: Corrosive / 8% Solution: Non-irritating

Eyes: Moisturizing powder: Very irritating / 8% Solution: Moderately irritating /

0.5% Solution: Non-irritating / 0.2% solution absolutely non-irritating

Sensitization:

May cause sensitization by inhalation and skin contact

Genotoxicity: Ames test: Not mutagenic

Micronucleus Test: Not mutagenic

Other toxicological information

Subchronic oral toxicity (90 days), rat: concentration at which no effect was observed (NOEL)  
15 mg / kg / day

### Section 12: Ecological information

Fish: 96h-LC50 (Poecilia reticulata): 31 mg / l

Daphnia: 48h-EC50: 4.5 mg / l

Degradation biotic

Easily biodegradable (at low concentrations).

p-Toluenesulfonamide (hydrolysis product): Easily biodegradable

Other Information

Reproduction test with Daphnia magna: Lower threshold (NOEL)> 1 mg / l

The substance is classified in the water hazard class 2 (according to AwSV).

### Section 13: Disposal considerations

#### 13.1 Waste treatment methods

##### Treatment of the mixture

Disposal in compliance with local regulations. Waste should not be disposed of via wastewater.

##### Treatment of contaminated packaging

Completely emptied containers can be recycled.

##### Waste code according to AVV

07 05 13 solid waste containing hazardous substances

15 01 02 for the primary packaging

##### Relevant EU or other regulations

German law: KrW-/AbfG (Kreislaufwirtschafts- und Abfallgesetz)



# Safety Data Sheet

based on Regulation (EC) No 1907/2006

Revision date: 15.11.2019  
Date of entry into force: 15.11.2019

Version: 5  
Replace version: -

## Chloramin T-Lysoform

### Section 14: Transport information

Evaluations of transport stability testing of our drugs have shown that in temperate climates, no specific transport conditions (e.g. temperature) must be adhered to and recorded according to the Good Distribution Practice.

**14.1 UN-number:** 3263

**14.2 Proper shipping name**

All modes of transport:  
CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (tosylchloramide sodium)

**14.3 Transport hazard class(es)**

Land: ADR/RID and GGVS/GGVE class: 8 Corrosive substances  
Tunnel restriction code: E

Sea: IMDG/GGV Sea-class: 8  
EMS-number: F-A, S-B

Air: ICAO-TI / IATA-DGR-class: 8

**14.4 Packing group**

III

**14.5 Environmental hazards**

**Labelling environmentally hazardous substances**

ADR/RID / IMDG-Code / ICAO-TI / IATA-DGR: No  
IMDG-Code: Marine Pollutant: No

**14.6 Special precautions for user (transport company)**

No

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

No transport in bulk

### Section 15: Regulatory information

**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

**German regulations:**

In German: Arzneimittelgesetz mit entsprechenden Verordnungen / TRGS und Bekanntmachungen / Betriebssicherheitsverordnung BetrSichV / Jugendarbeitsschutzgesetz / Mutterschutzgesetz / Vorgaben Berufsgenossenschaften / Technische Anleitung Luft 5.2.5 Organische Stoffe

**Other information:**

The product is a medicinal product according to AMG § 2 Abs. 1. Therefore, it is exempted from the labeling requirement as a hazardous substance.



# Safety Data Sheet

based on Regulation (EC) No 1907/2006

Revision date: 15.11.2019  
Date of entry into force: 15.11.2019

Version: 5  
Replace version: -

---

## Chloramin T-Lysoform

---

---

### Section 16: Other information

#### Changes since the last version

Version 5: First English version / Version number of the SDS is similar to the German SDS

#### Literature and data sources

TRGS / Gestis / professional associations / MSDS of ingredients

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product with regard to the safety requirements. The information should not be regarded in any way as a description of the nature of the goods (product specification). Any agreed property or the suitability of the product for a specific purpose can not be derived from our information in the Safety Data Sheet. We will advise you whether and under what circumstances, the preparation is suitable for a defined purpose. Any proprietary rights and existing laws and regulations must be observed by the recipient of our product (responsibility of the recipient).