



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Trichlorol

Revision date: 08.05.2017

Product code: 507

Page 1 of 10

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

1.1. Product identifier

Trichlorol

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

Use of the substance/mixture

Wipe disinfection of surfaces, objects and medical devices
For professional use.

1.3. Details of the supplier of the safety data sheet

Company name: Lysoform Dr. Hans Rosemann GmbH
Street: Kaiser-Wilhelm-Straße 133
Place: D-12247 Berlin
Telephone: +49 (0)30 77992-0
Contact person: Wissenschaftlich-Technische Abteilung Berlin
Telefax: +49 (0)30 77992-219
Telephone: +49 (0)30 / 77992-216
e-mail: kontakt@lysoform.de
Internet: www.lysoform.de

1.4. Emergency telephone number: +49 (0)89 19240 (Giftnotruf München Toxikologische Abteilung)

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Regulation (EC) No. 1272/2008

Hazard categories:

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Resp. Sens. 1

Hazard Statements:

Harmful if swallowed.

Causes severe skin burns and eye damage.

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

tosylchloramide sodium 3 H₂O

Sodium dodecyl sulfate

Signal word: Danger**Pictograms:**

Hazard statements

H302

Harmful if swallowed.

H314

Causes severe skin burns and eye damage.

H334

May cause allergy or asthma symptoms or breathing difficulties if inhaled.

Precautionary statements

P260

Do not breathe dust/fume/gas/mist/vapours/spray.

P280

Wear protective gloves, protective clothing and eye protection.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Trichlorol

Revision date: 08.05.2017

Product code: 507

Page 2 of 10

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P342 If experiencing respiratory symptoms:

P311 Call a doctor.

2.3. Other hazards

No information available.

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]			
7080-50-4	tosylchloramide sodium 3 H ₂ O			30 - < 100 %
	204-854-7	616-010-00-9		
	Acute Tox. 4, Skin Corr. 1B, Resp. Sens. 1; H302 H314 H334 EUH031			
151-21-3	Sodium dodecyl sulfate			5 - < 10 %
	205-788-1		01-2119489461-32	
	Flam. Sol. 2, Acute Tox. 4, Acute Tox. 4, Skin Irrit. 2, Eye Dam. 1, STOT SE 3, Aquatic Chronic 3; H228 H302 H332 H315 H318 H335 H412			

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

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

5 % - < 15 % anionic surfactants, perfumes.

SECTION 4: First aid measures**4.1. Description of first aid measures****General information**

Call a physician immediately. If medical advice is needed, have product container or label at hand.

After inhalation

Provide fresh air. If breathing is irregular or stopped, administer artificial respiration. Medical treatment necessary.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately with plenty of water and soap. Wash contaminated clothing prior to re-use.

After contact with eyes

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

After ingestion

If swallowed, rinse mouth with water (only if the person is conscious). Let water be drunken in little sips (dilution effect). Do NOT induce vomiting.

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

No information available.

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

none

SECTION 5: Firefighting measures**5.1. Extinguishing media**



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Trichlorol

Revision date: 08.05.2017

Product code: 507

Page 3 of 10

Suitable extinguishing media

Water spray jet, Extinguishing powder, Foam

5.2. Special hazards arising from the substance or mixture

In case of fire: Hydrogen chloride (HCl). Nitrogen oxides (NOx), Sulphur dioxide (SO₂)

5.3. Advice for firefighters

Wear a self-contained breathing apparatus and chemical protective clothing. Full protection suit.

Additional information

Suppress gases/vapours/mists with water spray jet. Collect contaminated fire extinguishing water separately.

Do not allow entering drains or surface water.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Do not breathe dust. Avoid contact with skin, eyes and clothes. Use personal protection equipment.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Take up mechanically. Treat the recovered material as prescribed in the section on waste disposal.

6.4. Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

Disposal: see section 13

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

To prepare a dilution, always first fill in the water and then add the product.

Advice on protection against fire and explosion

No special fire protection measures are necessary.

Further information on handling

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Remove contaminated, saturated clothing immediately. Avoid contact with eyes.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in the original container in a cool, well-ventilated place. Keep container dry. Avoid: Frost. Keep out of the reach of children.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

7.3. Specific end use(s)

none

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Trichlorol

Revision date: 08.05.2017

Product code: 507

Page 4 of 10

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
151-21-3	Sodium dodecyl sulfate			
Worker DNEL, long-term		dermal	systemic	1060 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	285 mg/m ³

PNEC values

CAS No	Substance	Value
151-21-3	Sodium dodecyl sulfate	
Freshwater		0.137 mg/l
Marine water		0.0137 mg/l
Freshwater sediment		4.82 mg/kg
Marine sediment		0.482 mg/kg
Micro-organisms in sewage treatment plants (STP)		1084 mg/l
Soil		0.882 mg/kg

8.2. Exposure controls**Protective and hygiene measures**

Remove contaminated, saturated clothing immediately. Wash hands and face before breaks and after work and take a shower if necessary. When using do not eat or drink.

Eye/face protection

When handling the concentrated product (for example, transferring) use tight fitting eye protection.

Hand protection

When handling with chemical substances, protective gloves must be worn with the CE-label including the four control digits. Chemical protective gloves must specifically chosen for each workplace depending on the concentration and amount of hazardous substances, temperature and contact time.

Recommendation:

NBR (Nitrile rubber), Butyl caoutchouc (butyl rubber)

For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves.

To prevent skin irritation in the professional field - regardless of actual contact with disinfectants - it is recommended to use: • a fast absorbing skin care cream in between if necessary. • a greasy cream after washing at the end of work or before breaks.

Skin protection

Wear suitable protective clothing.

Respiratory protection

In case of inadequate ventilation wear respiratory protection. P2 (dust formation)



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Trichlorol

Revision date: 08.05.2017

Product code: 507

Page 5 of 10

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: solid Powder
Colour: white
Odour: characteristic

pH-Value (at 20 °C): ca. 8

Changes in the physical state

Melting point: not determined
Initial boiling point and boiling range: not determined
Flash point: not applicable

Flammability

Solid: not determined
Gas: not applicable
Lower explosion limits: not determined
Upper explosion limits: not determined

Auto-ignition temperature

Solid: not determined
Gas: not applicable
Decomposition temperature: not determined

Oxidizing properties

Not oxidising.
Vapour pressure: not determined
Density: not determined
Bulk density: 600 kg/m³

Solubility in other solvents

not determined
Partition coefficient: not determined
Vapour density: not determined
Evaporation rate: not determined

Test method

9.2. Other information

SECTION 10: Stability and reactivity

10.1. Reactivity

Oxidising.

10.2. Chemical stability

The product is chemically stable under recommended conditions of storage, use and temperature.
Moisture-sensitive. Contact with acids liberates toxic gas.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions.

10.4. Conditions to avoid

Safe handling: see section 7

10.5. Incompatible materials

moisture. Acid.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Trichlorol

Revision date: 08.05.2017

Product code: 507

Page 6 of 10

10.6. Hazardous decomposition products

Chlorine. Carbon dioxide (CO₂) Carbon monoxide Hydrogen chloride (HCl). Nitrogen oxides (NO_x) Sulphur oxides Sodium oxide

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute toxicity**

Harmful if swallowed.

ATEmix calculated

ATE (oral) 1041.7 mg/kg

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7080-50-4	tosylchloramide sodium 3 H ₂ O				
	oral	LD50 ca. 1000 mg/kg	Rat		
151-21-3	Sodium dodecyl sulfate				
	oral	LD50 > 500 - 2000 mg/kg	Rat		
	dermal	LD50 > 2000 mg/kg	Rabbit		
	inhalative vapour	ATE 11 mg/l			
	inhalative aerosol	ATE 1.5 mg/l			

Irritation and corrosivity

Causes severe skin burns and eye damage.

Chloramin T:

In case of skin contact:

Moistened powder: Corrosive / 8% solution: Not an irritant.

In case of eye contact:

Moistened powder: strongly irritant. / 8% solution: Moderately irritating / 0.5% solution: Not an irritant. / 0.2% solution: No irritation

Sodium dodecyl sulfate:

OECD 404 Rabbit : Irritant

Sensitising effects

May cause allergy or asthma symptoms or breathing difficulties if inhaled. (tosylchloramide sodium 3 H₂O)

Carcinogenic/mutagenic/toxic effects for reproduction

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

Sodium dodecyl sulfate:

OECD 471 (Ames test) : negative.

OECD 474 (Micronucleus test) Mouse : negative.

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

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Trichlorol

Revision date: 08.05.2017

Product code: 507

Page 7 of 10

12.1. Toxicity

The product is not: Ecotoxic.

CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
7080-50-4	tosylchloramide sodium 3 H ₂ O					
	Acute fish toxicity	LC50 31 mg/l	96 h	Poecilia reticulata	Akzo Nobel	
	Acute crustacea toxicity	EC50 4.5 mg/l	48 h	Daphnia	Akzo Nobel	
151-21-3	Sodium dodecyl sulfate					
	Acute fish toxicity	LC50 >10 - 100 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 >100 mg/l		Desmodesmus subspicatus		
	Acute crustacea toxicity	EC50 >1 - 10 mg/l	48 h	Ceriodaphnia spec		
	Fish toxicity	NOEC >1 - 10 mg/l		Pimephales promelas (fathead minnow)		
	Crustacea toxicity	NOEC <=1 mg/l		Ceriodaphnia spec		
	Acute bacteria toxicity	(>100 mg/l)		Pseudomonas putida		

12.2. Persistence and degradability

The product has not been tested.

Chloramin T
Readily biodegradable.Sodium dodecyl sulfonate:
Readily biodegradable (according to OECD criteria).**12.3. Bioaccumulative potential**

The product has not been tested.

12.4. Mobility in soil

The product has not been tested.

12.5. Results of PBT and vPvB assessment

The substances in the mixture do not meet the PBT/vPvB criteria according to REACH, annex XIII.

12.6. Other adverse effects

No information available.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Advice on disposal**

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil. Dispose of waste according to applicable legislation.

Waste disposal number of waste from residues/unused products

070513 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of pharmaceuticals; solid wastes containing hazardous substances; hazardous waste

Waste disposal number of contaminated packaging

150102 WASTE PACKAGING; ABSORBENTS, WIPING CLOTHS, FILTER MATERIALS AND PROTECTIVE CLOTHING NOT OTHERWISE SPECIFIED; packaging (including separately collected municipal packaging waste); plastic packaging

Contaminated packaging

Wash with plenty of water. Completely emptied packages can be recycled.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Trichlorol


Revision date: 08.05.2017

Product code: 507

Page 8 of 10

SECTION 14: Transport information**Land transport (ADR/RID)**


14.1. UN number: UN 3263
14.2. UN proper shipping name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (tosylchloramide sodium)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Classification code: C8
Special Provisions: 274
Limited quantity: 5 kg
Excepted quantity: E1
Transport category: 3
Hazard No: 80
Tunnel restriction code: E

Marine transport (IMDG)


14.1. UN number: UN 3262
14.2. UN proper shipping name: CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (tosylchloramide sodium)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Special Provisions: 223, 274
Limited quantity: 5 kg
Excepted quantity: E1
EmS: F-A, S-B

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 3263
14.2. UN proper shipping name: CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (tosylchloramide sodium)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
Hazard label: 8



Special Provisions: A3 A803
Limited quantity Passenger: 5 kg
Passenger LQ: Y845
Excepted quantity: E1
IATA-packing instructions - Passenger: 860

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Trichlorol

Revision date: 08.05.2017

Product code: 507

Page 9 of 10

IATA-max. quantity - Passenger: 25 kg
IATA-packing instructions - Cargo: 864
IATA-max. quantity - Cargo: 100 kg

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No information available.

14.7. Transport in bulk according to Annex II of Marpol and the IBC Code

not applicable

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****EU regulatory information****Additional information**

To follow: Regulation (EC) No. 648/2004 (Detergents regulation), 850/2004/EC, 79/117/EEC, 689/2008/EC

National regulatory information

Employment restrictions: Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers. Observe employment restrictions for women of child-bearing age.

Water contaminating class (D): 2 - water contaminating

15.2. Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s):
1,2,3,4,5,6,7,8,9,10,11,12,13,14,15,16.

Abbreviations and acronyms

ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)
IMDG: International Maritime Code for Dangerous Goods
IATA: International Air Transport Association
GHS: Globally Harmonized System of Classification and Labelling of Chemicals
EINECS: European Inventory of Existing Commercial Chemical Substances
ELINCS: European List of Notified Chemical Substances
CAS: Chemical Abstracts Service
LC50: Lethal concentration, 50%
LD50: Lethal dose, 50%

Relevant H and EUH statements (number and full text)

H228 Flammable solid.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H315 Causes skin irritation.
H318 Causes serious eye damage.
H332 Harmful if inhaled.
H334 May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H335 May cause respiratory irritation.
H412 Harmful to aquatic life with long lasting effects.

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Trichlorol

Revision date: 08.05.2017

Product code: 507

Page 10 of 10

EUH031 Contact with acids liberates toxic gas.

Further Information

The data contained in this safety data sheet is based on our current knowledge and experience and describe the product with regard to safety requirements. The information should not be regarded in any way as a description of the product's properties (product specification). Agreed characteristics nor the suitability of the product for a specific purpose can not be derived from the information in the SDS. We will advise you as to whether and under what circumstances, the preparation is suitable for a defined purpose. Proprietary rights and existing laws and regulations must be respected by the receiver of our product.

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