

according to Regulation (EC) No 1907/2006

Clorina

Revision date: 22.12.2016

Product code: 553

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

1.1. Product identifier

Clorina

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	Telefax: +49 (0)30 77992-219
Contact person:	Wissenschaftlich-Technische Abteilung Berlin	Telephone: +49 (0)30 / 77992-216
e-mail:	kontakt@lysoform.de	
Internet:	www.lysoform.de	
1.4. Emergency telephone	+49 (0)89 19240 (Giftnotruf München	Toxikologische Abteilung)
<u>number:</u>		

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 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

Signal word:

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

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P260	Do not breathe dust.
P280	Ware protective gloves, protective clothing and eye protection.
P233	Keep container tightly closed.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if





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P342 If experiencing respiratory symptoms:

P310 Call a doctor.

Special labelling of certain mixtures EUH031 Contact with a

Contact with acids liberates toxic gas.

2.3. Other hazards

No information available.

SECTION 3: Composition/information on ingredients

3.1. Substances

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 H2O			30 - < 100 %
	204-854-7	616-010-00-9		
	Acute Tox. 4, Skin Corr. 1B, Resp. Sens. 1; H302 H314 H334 EUH031			

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

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

Take off immediately all contaminated clothing and wash it before reuse. After contact with skin, wash immediately with plenty of water and soap.

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

Suitable extinguishing media

Water spray jet, Extinguishing powder, Foam

5.2. Special hazards arising from the substance or mixture

In case of fire: Hydrochloric acid, Nitrogen oxides (NOx), Sulphur dioxide (SO2)



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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. (TRGS 510)

7.3. Specific end use(s)

none

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls



Protective and hygiene measures

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



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Eye/face protection

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

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

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state:	solid Powder	
Colour:	white	
Odour:	characteristic	
		Test method
pH-Value (at 20 °C):	8 (50 g/l H2O)	
Changes in the physical state		
Melting point:	not applicable	
Initial boiling point and boiling range:	not applicable	
Flash point:	not determined	
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:	176 °C	
Oxidizing properties not determined		
Vapour pressure:	not determined	
Density (at 20 °C):	1.43 g/cm³	
Bulk density:	700 kg/m³	
Water solubility: (at 25 °C)	150 g/L	



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Solubility in other solvents not determined		
Partition coefficient:	not determined	
Vapour density:	not determined	
Evaporation rate:	not determined	
9.2. Other information		
Solid content:	not determined	

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.

10.3. Possibility of hazardous reactions

No hazardous reaction when handled and stored according to provisions. Contact with acids liberates toxic gas.

10.4. Conditions to avoid

Safe handling: see section 7

10.5. Incompatible materials

moisture. Acid.

10.6. Hazardous decomposition products

Chlorine. Carbon dioxide (CO2) Carbon monoxide Hydrogen chloride (HCI). Nitrogen oxides (NOx) Sulphur oxides, Sodium oxide

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity

Harmful if swallowed.

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
7080-50-4	osylchloramide sodium 3 H2O				
		LD50 ca. 1000 mg/kg	Rat		

Irritation and corrosivity

Causes severe skin burns and eye damage. 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

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. Ames-Test: negative.

Micronucleus-Test: negative.



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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.

Practical experience

Other observations

Subchronic oral toxicity 90d Rat NOEL(C): 15 mg/kg/d

SECTION 12: Ecological information

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 I	420					
	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	

12.2. Persistence and degradability

The product has not been tested.

Chloramin T: Readily biodegradable.

12.3. Bioaccumulative potential

No information available.

12.4. Mobility in soil

No information available.

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.

Further information

Do not allow to enter into surface water or drains. Do not allow to enter into soil/subsoil.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Advice on disposal

070513

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

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.



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SECTION 14: Transport information

Land transport (ADR/RID)	
<u>14.1. UN number:</u>	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 F
Tunnel restriction code:	E
Marine transport (IMDG)	
<u>14.1. UN number:</u>	UN 3263
14.2. UN proper shipping name:	CORROSIVE SOLID, BASIC, ORGANIC, N.O.S. (tosylchloramide sodium)
<u>14.3. Transport hazard class(es):</u>	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)	
<u>14.1. UN number:</u>	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
	8
Special Provisions:	A3 A803
Limited quantity Passenger:	5 kg
Passenger LQ:	Y845
Excepted quantity:	E1
IATA-packing instructions - Passenger:	860



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IATA-max. quantity - Passenger:	25 kg	
IATA-packing instructions - Cargo:	864	
IATA-max. quantity - Cargo:	100 kg	
14.5. Environmental hazards	<i>c</i>	

ENVIRONMENTALLY HAZARDOUS: no

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, 1107/2009/EC, 649/2012/EC. 1907/2006 REACh / 1272/2008 CLP GHS

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

For this substance a chemical safety assessment has not been 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)

H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
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





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and existing laws and regulations must be respected by the receiver of our product.