



## Safety Data Sheet

according to Regulation (EC) No 1907/2006

### Lysoform

Revision date: 09.06.2016

Product code: LYS632

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

##### 1.1. Product identifier

Lysoform

##### 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 Restricted to professional users

##### 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  
e-mail: kontakt@lysoform.de  
Internet: www.lysoform.de

Telefax: +49 (0)30 77992-219

Telephone: +49 (0)30 / 77992-216

##### 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:

Skin corrosion/irritation: Skin Irrit. 2

Serious eye damage/eye irritation: Eye Dam. 1

Respiratory or skin sensitisation: Skin Sens. 1

Germ cell mutagenicity: Muta. 2

Carcinogenicity: Carc. 1B

Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:

Causes skin irritation.

Causes serious eye damage.

May cause an allergic skin reaction.

Suspected of causing genetic defects.

May cause cancer.

May cause respiratory irritation.

##### 2.2. Label elements

###### Regulation (EC) No. 1272/2008

###### Hazard components for labelling

Formaldehyde ... %

Sodium alkyl ether sulphate

Signal word: Danger

Pictograms:



###### Hazard statements

H315

Causes skin irritation.

H317

May cause an allergic skin reaction.



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H318	Causes serious eye damage.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.

#### Precautionary statements

P280	Wear protective gloves, protective clothing and eye protection.
P271	Use only outdoors or in a well-ventilated area.
P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P302+P352	IF ON SKIN: Wash with plenty of water.
P310	In case of accident: Call a doctor immediately.

#### 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]			
50-00-0	Formaldehyde ... %			5 - < 10 %
	200-001-8	605-001-00-5	01-2119488953-20	
	Carc. 1B, Muta. 2, Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Corr. 1B, Skin Sens. 1; H350 H341 H301 H311 H331 H314 H317			
68891-38-3	Sodium alkyl ether sulphate			5 - < 10 %
	500-234-8		01-2119488639-16	
	Skin Irrit. 2, Eye Dam. 1, Aquatic Chronic 3; H315 H318 H412			

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

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

5 % - &lt; 15 % anionic surfactants, &lt; 5 % phosphates, 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.

##### After contact with skin

Take off immediately all contaminated clothing and wash it before reuse. Wash with plenty of water.

##### 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

Do NOT induce vomiting. Rinse mouth immediately and drink plenty of water.

#### 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



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none

#### SECTION 5: Firefighting measures

##### 5.1. Extinguishing media

###### Suitable extinguishing media

Water spray jet, Carbon dioxide, Extinguishing powder, Foam

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

In case of fire dangerous vapors / gases can be released Carbon monoxide. Carbon dioxide

##### 5.3. Advice for firefighters

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

##### **Additional information**

Use water spray jet to protect personnel and to cool endangered containers. 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

Provide adequate ventilation. 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

Absorb with liquid-binding material (e.g. sand, diatomaceous earth, acid- or universal binding agents). 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

Provide adequate ventilation. Keep container tightly closed. 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. Store in a place accessible by authorized persons only. (TRGS 510 4.2 (12))

###### Advice on storage compatibility

Do not store together with: Food and feedingstuffs

##### 7.3. Specific end use(s)

none

#### SECTION 8: Exposure controls/personal protection



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#### 8.1. Control parameters

##### Exposure limits (EH40)

CAS No	Substance	ppm	mg/m <sup>3</sup>	fibres/ml	Category	Origin
50-00-0	Formaldehyde	2	2.5		TWA (8 h)	WEL
		2	2.5		STEL (15 min)	WEL
57-55-6	Propane-1,2-diol, particulates	-	10		TWA (8 h)	WEL
		-	-		STEL (15 min)	WEL

##### DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
50-00-0	Formaldehyde ... %			
	Worker DNEL, long-term	dermal	systemic	240 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	0.5 mg/m <sup>3</sup>
	Worker DNEL, acute	inhalation	systemic	1 mg/m <sup>3</sup>
68891-38-3	Sodium alkyl ether sulphate			
	Worker DNEL, long-term	dermal	systemic	2750 mg/kg bw/day
	Worker DNEL, long-term	inhalation	systemic	175 mg/m <sup>3</sup>

##### PNEC values

CAS No	Substance	Value
50-00-0	Formaldehyde ... %	
	Freshwater	0.47 mg/l
	Marine water	0.47 mg/l
	Freshwater sediment	2.44 mg/l
	Marine sediment	2.44 mg/l
	Micro-organisms in sewage treatment plants (STP)	0.19 mg/l
	Soil	0.03 mg/kg
68891-38-3	Sodium alkyl ether sulphate	
	Freshwater	0.24 mg/l
	Marine water	0.024 mg/l
	Freshwater sediment	5.45 mg/kg
	Marine sediment	0.545 mg/kg
	Micro-organisms in sewage treatment plants (STP)	10000 mg/l
	Soil	0.946 mg/kg

#### 8.2. Exposure controls



##### Appropriate engineering controls

Do not breathe gas/fumes/vapour/spray.



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#### Protective and hygiene measures

Take off contaminated clothing. Wash hands before breaks and after work. 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. Filter type: B

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

Physical state:	liquid
Colour:	colourless - light yellow
Odour:	characteristic

pH-Value (at 20 °C):	ca. 8 (50 g/l H <sub>2</sub> O)	<b>Test method</b>
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#### Changes in the physical state

Melting point:	not determined
Initial boiling point and boiling range:	not determined
Flash point:	> 70 °C DIN 51755

#### Flammability

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

#### Auto-ignition temperature

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

#### Oxidizing properties

Not oxidizing.

Vapour pressure:	not determined
Density:	1.06 g/cm <sup>3</sup>
Water solubility:	easily soluble

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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****SECTION 10: Stability and reactivity****10.1. Reactivity**

No hazardous reaction when handled and stored according to provisions.

**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.

**10.4. Conditions to avoid**

Safe handling: see section 7

**10.5. Incompatible materials**

Oxidising agent, strong, Acid, Base

**10.6. Hazardous decomposition products**

The product is chemically stable under recommended conditions of storage, use and temperature.

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

Inhalation Rat: „little inhalation hazard“

Subacute inhalation (rat): Maximum acceptance value (with safety factor of 10) = 0.03 mg/dm<sup>3</sup>**ATEmix tested**

	Dose	Species	Source
LD50, oral	2920 mg/kg	Rat	
LD50, dermal	4900 mg/kg	Rabbit	

CAS No	Chemical name	Exposure route	Dose	Species	Source
50-00-0	Formaldehyde ... %	oral	LD50 100 mg/kg	Rat	
		dermal	LD50 270 mg/kg	Rabbit	
		inhalative vapour	ATE 3 mg/l		
		inhalative aerosol	ATE 0.5 mg/l		
68891-38-3	Sodium alkyl ether sulphate	oral	LD50 >5000 mg/kg	Rat	
		dermal	LD50 >5000 mg/kg	Rat	

**Irritation and corrosivity**

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In case of skin contact  
Rabbit OECD 404: Irritant

In case of eye contact  
Concentration 100% Rabbit: Causes serious eye damage.  
Concentration 3% Rabbit: Not an irritant.

Sodium alkyl ether sulphate (30% solution):  
In case of skin contact: OECD 404: Irritant  
In case of eye contact: OECD 405: Irritant

**Sensitising effects**

0,1% solution Guinea pig: negative.

Sodium alkyl ether sulphate (30% solution):  
OECD 406 Guinea pig: negative.

**Carcinogenic/mutagenic/toxic effects for reproduction**

Sodium alkyl ether sulphate (30% solution):  
OECD 471 (Ames test): negative.

**SECTION 12: Ecological information****12.1. Toxicity**

The product is not: Ecotoxic.

CAS No	Chemical name	Dose	[h]   [d]	Species	Source
50-00-0	Formaldehyde ... %				
	Acute fish toxicity	LC50 6.7 mg/l	96 h	Lepomis macrochirus (Bluegill)	
	Acute crustacea toxicity	EC50 42 mg/l	48 h	Daphnia magna (Big water flea)	
68891-38-3	Sodium alkyl ether sulphate				
	Acute fish toxicity	LC50 10 - 100 mg/l	96 h	Leuciscus idus (golden orfe)	
	Fish toxicity	NOEC mg/l >1 - <= 10		Leuciscus idus (golden orfe)	
	Crustacea toxicity	NOEC >0.1 - 1 mg/l		Daphnia magna (Big water flea)	

**12.2. Persistence and degradability**

Biodegradable. DEV/L3-test (dehydrogease activity)

CAS No	Chemical name	Method	Value	d	Source
		Evaluation			
50-00-0	Formaldehyde ... %				
		Readily biodegradable (according to OECD criteria).			
68891-38-3	Sodium alkyl ether sulphate				
		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.

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**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**

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**

070601 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; aqueous washing liquids and mother liquors  
Classified as 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**

This material and its container must be disposed of as hazardous waste. Handle contaminated packages in the same way as the substance itself.

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

<b>14.1. UN number:</b>	UN 1903
<b>14.2. UN proper shipping name:</b>	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Formaldehyde 5-10 %, Sodium alkyl ether sulphate)
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III
Hazard label:	8
	
Classification code:	C9
Special Provisions:	274
Limited quantity:	5 L
Excepted quantity:	E1
Transport category:	3
Hazard No:	80
Tunnel restriction code:	E

**Marine transport (IMDG)**

<b>14.1. UN number:</b>	UN 1903
<b>14.2. UN proper shipping name:</b>	DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Formaldehyde 5-10 %, Sodium alkyl ether sulphate)
<b>14.3. Transport hazard class(es):</b>	8
<b>14.4. Packing group:</b>	III



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Hazard label:

8



Special Provisions:

223, 274

Limited quantity:

5 L

Excepted quantity:

E1

EmS:

F-A, S-B

**Air transport (ICAO-TI/IATA-DGR)****14.1. UN number:**

UN 1903

**14.2. UN proper shipping name:**

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Formaldehyde 5-10 %, Sodium alkyl ether sulphate)

**14.3. Transport hazard class(es):**

8

**14.4. Packing group:**

III

Hazard label:

8



Special Provisions:

A3 A803

Limited quantity Passenger:

1 L

Passenger LQ:

Y841

Excepted quantity:

E1

IATA-packing instructions - Passenger:

852

IATA-max. quantity - Passenger:

5 L

IATA-packing instructions - Cargo:

856

IATA-max. quantity - Cargo:

60 L

**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****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.

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****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)

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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)**

H301	Toxic if swallowed.
H311	Toxic in contact with skin.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H317	May cause an allergic skin reaction.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H335	May cause respiratory irritation.
H341	Suspected of causing genetic defects.
H350	May cause cancer.
H412	Harmful to aquatic life with long lasting effects.

**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.

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