



Safety Data Sheet

according to Regulation (EC) No 1907/2006

Amocid

Revision date: 02.03.2018

Product code: 567

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

1.1. Product identifier

Amocid

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:

Skin corrosion/irritation: Skin Corr. 1B

Serious eye damage/eye irritation: Eye Dam. 1

Hazardous to the aquatic environment: Aquatic Chronic 2

Hazard Statements:

Causes severe skin burns and eye damage.

Toxic to aquatic life with long lasting effects.

2.2. Label elements

Regulation (EC) No. 1272/2008

Hazard components for labelling

Sodium hydroxide; caustic soda

2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol

Signal word: Danger

Pictograms:



Hazard statements

H314 Causes severe skin burns and eye damage.

H411 Toxic to aquatic life with long lasting effects.

Precautionary statements

P280 Wear protective gloves, protective clothing and eye protection.

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

P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower.

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P310

In case of accident: Call a doctor immediately.

P273

Avoid release to the environment.

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]			
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol			15 - < 20 %
	201-993-5	604-020-00-6	01-2119511183-53	
	Skin Irrit. 2, Eye Irrit. 2, STOT SE 3, Aquatic Acute 1, Aquatic Chronic 1; H315 H319 H335 H400 H410			
68188-18-1	Paraffin oils, sulfochlorinated, saponified			5 - < 10 %
	269-144-1		01-2119517577-32	
	Acute Tox. 4, Skin Irrit. 2, Eye Irrit. 2, Aquatic Chronic 3; H302 H315 H319 H412			
1310-73-2	Sodium hydroxide; caustic soda			1 - < 5 %
	215-185-5	011-002-00-6	01-2119471836-27	
	Met. Corr. 1, Skin Corr. 1A; H290 H314			
7632-00-0	sodium nitrite			1 - < 5 %
	231-555-9	007-010-00-4		
	Ox. Sol. 3, Acute Tox. 3, Eye Irrit. 2, Aquatic Acute 1; H272 H301 H319 H400			
62-56-6	thiocarbamide, thiourea			0.1 - < 1 %
	200-543-5	612-082-00-0		
	Carc. 2, Repr. 2, Acute Tox. 4, Aquatic Chronic 2; H351 H361d H302 H411			

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

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

perfumes (alpha-Isomethyl ionone).

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. After contact with skin, wash immediately with polyethylene glycol, followed by 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

Rinse mouth immediately and drink plenty of water.



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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, Carbon dioxide (CO₂), Extinguishing powder, Foam.

5.2. Special hazards arising from the substance or mixture

In case of fire: Sulphur oxides Carbon monoxide Carbon dioxide (CO₂)

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. Do not breathe gas/fumes/vapour/spray. 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

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. 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. Take off contaminated clothing and wash it before reuse.

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)



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none

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Exposure limits (EH40)

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
1310-73-2	Sodium hydroxide	-	-		TWA (8 h)	WEL
		-	2		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol			
Worker DNEL, long-term		dermal	systemic	21.84 mg/kg bw/day
Worker DNEL, long-term		inhalation	systemic	19.25 mg/m ³
68188-18-1	Paraffin oils, sulfochlorinated, saponified			
Worker DNEL, long-term		dermal	systemic	17 mg/kg bw/day
Worker DNEL, long-term		inhalation	local	10 mg/m ³

PNEC values

CAS No	Substance	Environmental compartment	Value
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol		
Freshwater			0.0009 mg/l
Marine water			0.00009 mg/l
Freshwater sediment			0.1284 mg/l
Marine sediment			0.01284 mg/kg
Micro-organisms in sewage treatment plants (STP)			0.56 mg/l
Soil			2.5 mg/kg
68188-18-1	Paraffin oils, sulfochlorinated, saponified		
Freshwater			0.02 mg/l
Marine water			0.002 mg/l
Freshwater sediment			0.17 mg/l
Marine sediment			0.017 mg/kg
Micro-organisms in sewage treatment plants (STP)			8.1 mg/l
Soil			0.02 mg/l
7632-00-0	sodium nitrite		
Freshwater			0.0054 mg/l
Marine water			0.00616 mg/l
Freshwater sediment			0.0195 mg/l
Marine sediment			0.0223 mg/kg
Micro-organisms in sewage treatment plants (STP)			21 mg/l
Soil			0.000733 mg/l



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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

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:

CR (polychloroprene, chloroprene rubber) PVC (Polyvinyl chloride)

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

none

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state: liquid
Colour: yellow
Odour: characteristic

Test method

pH-Value (at 20 °C): 11

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

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Oxidizing properties

Not oxidising.

Vapour pressure: not determined

Density (at 20 °C): 1.1 g/cm³

Water solubility: easily soluble

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**

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

Acid

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**

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

ATEmix tested

	Dose	Species	Source
LD50, oral	3500 mg/kg	Rat	

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CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol				
	oral	LD50 2733 mg/kg	Rat		
	dermal	LD50 >5000 mg/kg	Rat		
	inhalative (4 h) vapour	LC50 >36 mg/l	Rat		
68188-18-1	Paraffin oils, sulfochlorinated, saponified				
	oral	LD50 1271 mg/kg	Rat		
1310-73-2	Sodium hydroxide; caustic soda				
	oral	LD50 500 mg/kg	Rat		
7632-00-0	sodium nitrite				
	oral	LD50 180 mg/kg	Rat		
	inhalative (4 h) vapour	LC50 5.5 mg/l	Rat		
62-56-6	thiocarbamide, thiourea				
	oral	LD50 1750 mg/kg	Rat		
	dermal	LD50 2800 mg/kg	Rabbit		

Irritation and corrosivity

Causes severe skin burns and eye damage.
2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol
In case of skin contact: Rabbit: Moderately irritating
In case of eye contact: Rabbit: strongly irritant.

Paraffin oils, sulfochlorinated, saponified
In case of skin contact: Rabbit: Moderately irritating
In case of eye contact: Rabbit: Moderately irritating

sodium nitrite
In case of skin contact: OECD 404 Rabbit: negative.
In case of eye contact: OECD 405 Rabbit: negative.

Sensitising effects

Based on available data, the classification criteria are not met.
2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol
Guinea pig: not sensitising.

Paraffin oils, sulfochlorinated, saponified
OECD 406 Guinea pig not sensitising.

Carcinogenic/mutagenic/toxic effects for reproduction



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

2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol
Ames Test negative., ADI = 0.4 mg/kg (WHO 1999)

2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol
NOAEL: F0, F1 (Reproductive toxicity) NOAEL: F1, F2 (Offspring) Rat - male, Rat - female
oral : 460 mg/kg bw/d 25 week(s)

Paraffin oils, sulfochlorinated, saponified
OECD 471 (Ames test), OECD 476, OECD 474: 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

12.1. Toxicity

The product is not: Ecotoxic.



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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol					
	Acute fish toxicity	LC50 4.5 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 3.75 mg/l	72 h			OECD 201
	Acute crustacea toxicity	EC50 2.7 mg/l	48 h	Daphnia magna (Big water flea)		
	Crustacea toxicity	NOEC 0.009 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
	Acute bacteria toxicity	(62.2 mg/l)				
68188-18-1	Paraffin oils, sulfochlorinated, saponified					
	Acute fish toxicity	LC50 4.16 mg/l	96 h	Brachydanio rerio (zebra-fish)		
	Acute algae toxicity	ErC50 246.89 mg/l		Scenedesmus subspicatus		
	Acute crustacea toxicity	EC50 4.72 mg/l	48 h	Daphnia magna (Big water flea)		
	Crustacea toxicity	NOEC 1 mg/l		Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(810 mg/l)	3 h			
1310-73-2	Sodium hydroxide; caustic soda					
	Acute fish toxicity	LC50 189 mg/l	96 h			
7632-00-0	sodium nitrite					
	Acute fish toxicity	LC50 0,56 - 1,78 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Scenedesmus quadricauda		
	Acute crustacea toxicity	EC50 12,5 - 100 mg/l	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(210 mg/l)	3 h	Activated sludge		
62-56-6	thiocarbamide, thiourea					
	Acute fish toxicity	LC50 1000 mg/l	96 h			
	Acute algae toxicity	ErC50 6.8 mg/l				
	Acute crustacea toxicity	EC50 110 mg/l	48 h			
	Acute bacteria toxicity	(1265 mg/l)	0 h			

12.2. Persistence and degradability

The product has not been tested.

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol			
	301D Ready Biodegradability - Closed Bottle Test	75%	28	
	Readily biodegradable (according to OECD criteria).			
68188-18-1	Paraffin oils, sulfochlorinated, saponified			
	Readily biodegradable.			

12.3. Bioaccumulative potential

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The product has not been tested.

Partition coefficient n-octanol/water

CAS No	Chemical name	Log Pow
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol	3
68188-18-1	Paraffin oils, sulfochlorinated, saponified	2.27

BCF

CAS No	Chemical name	BCF	Species	Source
90-43-7	2-hydroxybiphenyl, 2-phenylphenol (ISO), biphenyl-2-ol	22		

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.

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; 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.

SECTION 14: Transport information**Land transport (ADR/RID)****14.1. UN number:**

UN 1903

14.2. UN proper shipping name:

DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (Sodium hydroxide; caustic soda, Biphenyl-2-ol)

14.3. Transport hazard class(es):

8

14.4. Packing group:

III

Hazard label:

8



Classification code:

C9

Special Provisions:

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Limited quantity: 5 L
Excepted quantity: E1
Transport category: 3
Hazard No: 80
Tunnel restriction code: E

Marine transport (IMDG)

14.1. UN number: UN 1903
14.2. UN proper shipping name: DISINFECTANT, LIQUID, CORROSIVE, N.O.S. (SODIUM HYDROXIDE; CAUSTIC SODA, Biphenyl-2-ol)
14.3. Transport hazard class(es): 8
14.4. Packing group: III
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. (SODIUM HYDROXIDE; CAUSTIC SODA, Biphenyl-2-ol)
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: yes

**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



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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).

Water contaminating class (D): 2 - clearly 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)

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)

H272	May intensify fire; oxidiser.
H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H351	Suspected of causing cancer.
H361d	Suspected of damaging the unborn child.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H411	Toxic to aquatic life with long lasting effects.
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.

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