

**Safety Data Sheet**

according to Regulation (EC) No 1907/2006

Anitseptica Combi Surface

Revision date: 18.10.2017

Product code: ANTI019

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1. Product identifier**

Anitseptica Combi Surface

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

Disinfectants

Reserved for industrial and professional use.

1.3. Details of the supplier of the safety data sheet

Company name: ANTISEPTICA Dr. Hans Joachim Molitor GmbH
Street: Carl-Friedrich-Gauß-Straße 7
Place: D-50259 Pulheim/Brauweiler
Telephone: ++49 (0)2234 / 98466-0 Telefax: ++49 (0)2234 / 98466-11
e-mail: sdb@antiseptica.com
Contact person: Scientific Technical Department Telephone: ++49 (0)2234 / 98466-27
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Internet: www.antiseptica.com

1.4. Emergency telephonenumber: Giftinformationszentrum NORD Universität Göttingen, giznord@giz-nord.de

Telephone: ++49 (0)551 / 1 92 40

SECTION 2: Hazards identification**2.1. Classification of the substance or mixture****Regulation (EC) No. 1272/2008**

Hazard categories:

Flammable liquid: Flam. Liq. 3

Acute toxicity: Acute Tox. 4

Acute toxicity: Acute Tox. 4

Skin corrosion/irritation: Skin Corr. 1

Respiratory or skin sensitisation: Resp. Sens. 1

Respiratory or skin sensitisation: Skin Sens. 1

Hazardous to the aquatic environment: Aquatic Acute 1

Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:

Flammable liquid and vapour.

Harmful if inhaled.

Harmful if swallowed.

Causes severe skin burns and eye damage.

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

May cause an allergic skin reaction.

Very toxic to aquatic life.

Harmful to aquatic life with long lasting effects.

2.2. Label elements**Regulation (EC) No. 1272/2008****Hazard components for labelling**

1,5-pentanedial, glutaral, glutaraldehyde,

Didecyldimethylammoniumchlorid,

Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides

Isopropanol

Signal word: Danger

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Pictograms:**Hazard statements**

H226	Flammable liquid and vapour.
H302+H332	Harmful if swallowed or if inhaled.
H314	Causes severe skin burns and eye damage.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H317	May cause an allergic skin reaction.
H410	Very toxic to aquatic life with long lasting effects.

Precautionary statements

P260	Do not breathe vapour.
P280	Wear protective gloves/protective clothing/eye protection/face protection.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.
P314	Get medical advice/attention if you feel unwell.
P273	Avoid release to the environment.

Special labelling of certain mixtures

EUH071	Corrosive to the respiratory tract.
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2.3. Other hazards

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

SECTION 3: Composition/information on ingredients**3.2. Mixtures**

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Hazardous components

CAS No	Chemical name			Quantity
	EC No	Index No	REACH No	
	Classification according to Regulation (EC) No. 1272/2008 [CLP]			
67-63-0	propan-2-ol; isopropanol			10 - < 15 %
	200-661-7	603-117-00-0	01-2119457558-25	
	Flam. Liq. 2, Eye Irrit. 2, STOT SE 3; H225 H319 H336			
111-30-8	1,5-pentanedial, glutural			5 - < 10 %
	203-856-5		01-2119455549-26	
	Acute Tox. 2, Acute Tox. 3, Skin Corr. 1B, Resp. Sens. 1, Skin Sens. 1A, Aquatic Acute 1, Aquatic Chronic 2; H330 H301 H314 H334 H317 H400 H411 EUH071			
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides			5 - < 10 %
	270-325-2			
	Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 1); H302 H314 H400 H410			
7173-51-5	didecyldimethylammonium chloride			1 - < 5 %
	230-525-2	612-131-00-6		
	Acute Tox. 3, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 2; H301 H314 H400 H411			
69011-36-5	Isotridecanol, branched, ethoxylated			1 - < 5 %
	Eye Dam. 1, Aquatic Chronic 3; H318 H412			
5064-31-3	trisodium nitrilotriacetate			0.1 - < 1 %
	225-768-6	607-620-00-6		
	Carc. 2, Acute Tox. 4, Eye Irrit. 2; H351 H302 H319			
142-19-8	Allylheptanoat			0.1 - < 1 %
	Acute Tox. 3, Acute Tox. 3, Acute Tox. 3, Skin Irrit. 2, Aquatic Acute 1, Aquatic Chronic 1; H331 H301 H315 H400 H410			

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

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

disinfectants, < 5 % non-ionic 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. Remove person to fresh air and keep comfortable for breathing.

After contact with skin

After contact with skin, take off immediately all contaminated clothing, and wash immediately 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

Rinse mouth immediately and drink plenty of water. Call emergency telephone number.

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

Headache, irritation of the mucous membranes, indisposition

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

Treatment of the patient is the same as for a chemical burn.

SECTION 5: Firefighting measures**5.1. Extinguishing media****Suitable extinguishing media**Water spray jet, Carbon dioxide (CO₂), Extinguishing powder, alcohol resistant foam**5.2. Special hazards arising from the substance or mixture**

Vapours are heavier than air, spread along floors and form explosive mixtures with air.

In case of fire dangerous vapors / gases can be released

Nitrogen oxides (NO_x), Carbon monoxide, Carbon dioxide**5.3. Advice for firefighters**

In case of fire: Wear self-contained breathing apparatus. Use water spray jet to protect personnel and to cool endangered containers.

SECTION 6: Accidental release measures**6.1. Personal precautions, protective equipment and emergency procedures**

Wear personal protection equipment. Provide adequate ventilation. Keep away from sources of ignition - No smoking.

6.2. Environmental precautions

Do not allow to enter into surface water or drains.

6.3. Methods and material for containment and cleaning up

Wipe up with absorbent material (eg. cloth, fleece). Suitable material for taking up: Universal binder, Sand.

Provide adequate ventilation.

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 as well as local exhaust at critical locations. To prepare a dilution, always first fill in the water and then add the product.

Further information on handling

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs. Change contaminated, saturated clothing. Avoid eye contact.

7.2. Conditions for safe storage, including any incompatibilities**Requirements for storage rooms and vessels**

Vapours are heavier than air. Keep only in the original container in a cool, well-ventilated place. Avoid: frost.

Keep out of the reach of children. Keep locked up and out of reach of children.

Advice on storage compatibility

Keep away from food, drink and animal feedingstuffs.

Further information on storage conditions

Protect against direct sunlight.

7.3. Specific end use(s)

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We have no knowledge of specific end uses.

SECTION 8: Exposure controls/personal protection**8.1. Control parameters****Exposure limits (EH40)**

CAS No	Substance	ppm	mg/m ³	fibres/ml	Category	Origin
111-30-8	Glutaraldehyde	0.05	0.2		TWA (8 h)	WEL
		0.05	0.2		STEL (15 min)	WEL
67-63-0	Propan-2-ol	400	999		TWA (8 h)	WEL
		500	1250		STEL (15 min)	WEL

DNEL/DMEL values

CAS No	Substance	Exposure route	Effect	Value
67-63-0	propan-2-ol; isopropanol			
Worker DNEL, long-term		inhalation	systemic	500 mg/m ³
Worker DNEL, long-term		dermal	systemic	888 mg/kg bw/day
Consumer DNEL, long-term		inhalation	systemic	89 mg/m ³
Consumer DNEL, long-term		dermal	systemic	319 mg/kg bw/day
Consumer DNEL, long-term		oral	systemic	26 mg/kg bw/day

PNEC values

CAS No	Substance	Value
67-63-0	propan-2-ol; isopropanol	
Freshwater		140.9 mg/l
Marine water		140.9 mg/l
Freshwater sediment		552 mg/l
Marine sediment		552 mg/l
Micro-organisms in sewage treatment plants (STP)		2251 mg/l
Soil		28 mg/l

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.

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. 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.

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

To prevent skin irritation in the professional field - regardless of actual contact with disinfectants - it is

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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. ABEK

SECTION 9: Physical and chemical properties**9.1. Information on basic physical and chemical properties**

Physical state:	liquid
Colour:	blue
Odour:	stinging

Test method

pH-Value (at 20 °C):	approx. 4
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Changes in the physical state

Initial boiling point and boiling range:	100 °C
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Flash point:	37 °C DIN 51755
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Flammability

Solid:	not applicable
Gas:	not applicable

Lower explosion limits:	not determined
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Upper explosion limits:	not determined
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Auto-ignition temperature

Solid:	not applicable
Gas:	not applicable

Vapour pressure:	not determined
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Density:	approx. 1 g/cm ³
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Water solubility:	easily soluble
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Partition coefficient:	not applicable
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Vapour density:	not determined
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Evaporation rate:	not determined
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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

Incompatible materials: Oxidising agent, strong, Base, anionic surfactants

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

CAS No	Chemical name				
	Exposure route	Dose	Species	Source	Method
67-63-0	propan-2-ol; isopropanol				
	oral	LD50 5840 mg/kg	Rat		
	dermal	LD50 13900 mg/kg	Rabbit		
	inhalative (4 h) vapour	LC50 37.5 mg/l	Rat		OECD 403
111-30-8	1,5-pentanedial, glutural				
	oral	LD50 77 mg/kg	Rat		OECD 401
	inhalative vapour	ATE 0.5 mg/l			
	inhalative (4 h) aerosol	LC50 0.28 -0.39 mg/l			OECD 403
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides				
	oral	LD50 344 mg/kg	Rat		
	dermal	LD50 3340 mg/kg	Rat		
7173-51-5	didecyldimethylammonium chloride				
	oral	LD50 238 mg/kg	Rat		OECD 410
	dermal	LD50 3342 mg/kg	Rabbit		
69011-36-5	Isotridecanol, branched, ethoxylated				
	oral	LD50 >5000 mg/kg	Rat		
	dermal	LD50 >2000 mg/kg	Rat		OECD 402
5064-31-3	trisodium nitrilotriacetate				
	oral	ATE 500 mg/kg			
142-19-8	Allylheptanoat				
	oral	ATE 100 mg/kg			
	dermal	ATE 300 mg/kg			
	inhalative vapour	ATE 3 mg/l			
	inhalative aerosol	ATE 0.5 mg/l			

Irritation and corrosivity

Didecyldimethylammoniumchloride:

In case of skin contact: OECD 404 Rabbit 3 min: Irritant

Glutural (in aqueous solution)

In case of skin contact Rabbit corrosive (OECD 404)

In case of eye contact Rabbit irreversible damage (Draize-Test)

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Sensitising effects

Didecyldimethylammoniumchloride:
Buehler Test US-EPA Guinea pig: negative.

Glutaral (in aqueous solution)
Positive data from patch testing. (OET) Guinea pig

Carcinogenic/mutagenic/toxic effects for reproduction

Didecyldimethylammoniumchloride:
negative. OECD 471 (Ames test) , Salmonella typhimurium
negative. Gene mutation , CHO-cells
negative. Chromosomal aberrations Test, CHO-cells
negative. Chromosomal aberrations Test oral Rat OECD 475

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

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CAS No	Chemical name					
	Aquatic toxicity	Dose	[h] [d]	Species	Source	Method
67-63-0	propan-2-ol; isopropanol					
	Acute fish toxicity	LC50 9640 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 >100 mg/l	72 h	Selenastrum capricornutum		
	Acute crustacea toxicity	EC50 9714 mg/l	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(> 100 mg/l)				
111-30-8	1,5-pentanedial, glutural					
	Acute fish toxicity	LC50 0.8 mg/l	96 h	Salmo gairdneri, syn. Oncorhynchus mykiss (Rainbow trout)		
	Acute algae toxicity	ErC50 0.6 mg/l	72 h	Desmodesmus subspicatus		OECD 201
	Acute crustacea toxicity	EC50 2.1 mg/l	48 h	Daphnia magna (Big water flea)		
	Fish toxicity	NOEC 1.6 mg/l	97 d	Oncorhynchus mykiss (Rainbow trout)		
	Algae toxicity	NOEC 0.025 mg/l	72 d	Desmodesmus subspicatus		OECD 201
	Crustacea toxicity	NOEC 5 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides					
	Acute fish toxicity	LC50 0.28 mg/l	96 h	Pimephales promelas (fathead minnow)		US-EPA
	Acute algae toxicity	ErC50 0.049 mg/l	72 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 0.016 mg/l	48 h	Daphnia magna (Big water flea)		OECD 202
	Fish toxicity	NOEC 0.032 mg/l	34 d	Pimephales promelas (fathead minnow)		EPA-FIFRA
	Crustacea toxicity	NOEC 0.0042 mg/l	21 d	Daphnia magna (Big water flea)		EPA-FIFRA
	Acute bacteria toxicity	(7.75 mg/l)	3 h	Activated sludge		OECD 209
7173-51-5	didecyldimethylammonium chloride					
	Acute fish toxicity	LC50 0.19 mg/l	96 h	Pimephales promelas (fathead minnow)		
	Acute algae toxicity	ErC50 0.026 mg/l	96 h	Pseudokirchneriella subcapitata		OECD 201
	Acute crustacea toxicity	EC50 0.062 mg/l	48 h	Daphnia magna (Big water flea)		OECD 211
	Fish toxicity	NOEC 0.032 mg/l	34 d	Danio rerio		OECD 210
	Crustacea toxicity	NOEC 0.016 mg/l	21 d	Daphnia magna (Big water flea)		OECD 211
	Acute bacteria toxicity	(11 mg/l)	3 h	Activated sludge		OECD 209
69011-36-5	Isotridecanol, branched, ethoxylated					
	Acute fish toxicity	LC50 1 - 10 mg/l	96 h	Oncorhynchus mykiss (Rainbow trout)		

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	Acute algae toxicity	ErC50 mg/l	1 - 10	72 h	algae		
	Acute crustacea toxicity	EC50 mg/l	1 - 10	48 h	Daphnia magna (Big water flea)		
	Acute bacteria toxicity	(>1.000 mg/l)			Pseudomonas putida		

12.2. Persistence and degradability

CAS No	Chemical name			
	Method	Value	d	Source
	Evaluation			
67-63-0	propan-2-ol; isopropanol			
		53%	5	
	Readily biodegradable.			
111-30-8	1,5-pentanedial, glutural			
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	90 - 100 %	28	
	Readily biodegradable (according to OECD criteria).			
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides			
	OECD 303 A	>90%		
	OECD 302 A	>99%	7	
	OECD 301 B	95.5%	28	
	Readily biodegradable.			
7173-51-5	didecyltrimethylammonium chloride			
	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	72%	28	
	Readily biodegradable (according to OECD criteria).			
	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	93.3	28	
	OECD 303/ EEC 92/69/V, C10	91%	70	
69011-36-5	Isotridecanol, branched, ethoxylated			
	OECD 301B, ISO 9439, 92/69/EEC C.4-C	>60%	28	
	Readily biodegradable.			

12.3. Bioaccumulative potential**Partition coefficient n-octanol/water**

CAS No	Chemical name	Log Pow
67-63-0	propan-2-ol; isopropanol	0.05
111-30-8	1,5-pentanedial, glutural	-0.36
68424-85-1	Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides	2.88

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

strongly hazardous to water (WGK 3)

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

070604 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother liquors; hazardous waste

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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 2920
14.2. UN proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (glutural; glutaraldehyde; 1,5-pentanedial, propan-2-ol; isopropanol)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8+3

Classification code: CF1
Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
Transport category: 2
Hazard No: 83
Tunnel restriction code: D/E

Marine transport (IMDG)

14.1. UN number: UN 2920
14.2. UN proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (glutural, isopropanol)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8+3

Special Provisions: 274
Limited quantity: 1 L
Excepted quantity: E2
EmS: F-E, S-C

Air transport (ICAO-TI/IATA-DGR)

14.1. UN number: UN 2920
14.2. UN proper shipping name: CORROSIVE LIQUID, FLAMMABLE, N.O.S. (glutural, isopropanol)
14.3. Transport hazard class(es): 8
14.4. Packing group: II
Hazard label: 8+3

Limited quantity Passenger: 0.5 L

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Passenger LQ:	Y840
Excepted quantity:	E2
IATA-packing instructions - Passenger:	851
IATA-max. quantity - Passenger:	1 L
IATA-packing instructions - Cargo:	855
IATA-max. quantity - Cargo:	30 L

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: yes

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

2010/75/EU (VOC): 10 %

2004/42/EC (VOC): 10 %

Additional information

To follow:

Regulation (EC) No. 648/2004 (Detergents regulation)

Classification according to Regulation (EC) No 1272/2008 [CLP]

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Directive 98/24/EC of 7 April 1998 on the protection of the health and safety of workers from the risks related to chemical agents at work

National regulatory information

Water contaminating class (D): 3 - highly water contaminating

SECTION 16: Other information**Changes**

This data sheet contains changes from the previous version in section(s): 1,3,4,6,7,10,15.

Relevant H and EUH statements (number and full text)

H225	Highly flammable liquid and vapour.
H226	Flammable liquid and vapour.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
H302+H332	Harmful if swallowed or if inhaled.
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.
H319	Causes serious eye irritation.
H330	Fatal if inhaled.
H331	Toxic if inhaled.
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled.
H336	May cause drowsiness or dizziness.
H351	Suspected of causing cancer.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

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H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.
EUH071	Corrosive to the respiratory tract.

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.)