

Trade name: ecosol CIT

Substance number: SUB302020170000

Version: 5 / EU

Date revised: 23.12.2015

the date of issue: 09.03.07

Replaces Version: 4 / EU

Print date: 23.12.15

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

1.1. Product identifier

ecosol CIT

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

Use of the substance/preparation

Liquid gloss agent for glass- and dishwashing-machines. For industrial application only.

1.3. Details of the supplier of the safety data sheet

Address/Manufacturer

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
A-5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-Mail regulatoryaffairs@hagleitner.at
Information provided Regulatory Affairs
by / telephone
E-mail address of regulatoryaffairs@hagleitner.at
person responsible
for this SDS

Address/Supplier

HAGLEITNER HYGIENE International GmbH
Lunastrasse 5
AT5700 Zell am See
Telephone no. +43 (0)5 0456
Fax no. +43 (0)5 0456 7777
E-mail address of regulatoryaffairs@hagleitner.at
person responsible
for this SDS

1.4. Emergency telephone number

Anti Poison Center Vienna: +43 (0)1 406 43430

SECTION 2: Hazards identification ***

2.1. Classification of the substance or mixture

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

Classification (Regulation (EC) No. 1272/2008)
Eye Dam. 1 H318

The product is classified and labelled in accordance with Regulation (EC) No 1272/2008
For explanation of abbreviations see section 16.

2.2. Label elements

Labelling according to regulation (EC) No 1272/2008

Hazard pictograms ***

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**Signal word *****

Danger

Hazard statements ***

H318 Causes serious eye damage.
 EUH208 Contains A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1), May produce an allergic reaction.

Precautionary statements ***

P280 Wear protective gloves/protective clothing/eye protection/face 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.
 P310 Immediately call a POISON CENTER or doctor.

Hazardous component(s) to be indicated on label (Regulation (EC) No. 1272/2008)

contains FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED

For industrial application only.

2.3. Other hazards

No special hazards have to be mentioned.

SECTION 3: Composition/information on ingredients *****3.2. Mixtures****Hazardous ingredients (Regulation (EC) No. 1272/2008) *******Citric acid, anhydrous**

CAS No.	77-92-9				
EINECS no.	201-069-1				
Concentration	>=	1	<	10	%

Classification (Regulation (EC) No. 1272/2008)
 Eye Irrit. 2 H319

FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED

CAS No.	POLYMER				
EINECS no.	POLYMER				
Concentration	>=	3	<	10	%

Classification (Regulation (EC) No. 1272/2008)
 Aquatic Acute 1 H400
 Eye Dam. 1 H318
 Skin Irrit. 2 H315

FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED

CAS No.	POLYMER				
EINECS no.	POLYMER				
Concentration	>=	1	<	10	%

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

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Acute Tox. 4	H302
Eye Irrit. 2	H319
Aquatic Chronic 3	H412

Sodium cumenesulphonate

CAS No.	15763-76-5
EINECS no.	239-854-6
Registration no.	01-2119489411-37-0000
Concentration	>= 1 < 10 %

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

Eye Irrit. 2	H319
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Potassium cumenesulphonate

CAS No.	164524-02-1
EINECS no.	629-764-9
Registration no.	01-2119489427-24-0000
Concentration	>= 1 < 10 %

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

Eye Irrit. 2	H319
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A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1)

CAS No.	55965-84-9
Registration no.	01-2119488221-41
Concentration	< 0,0015 %

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

Acute Tox. 3	H331
Aquatic Chronic 1	H410
Aquatic Acute 1	H400
Skin Sens. 1	H317
Skin Corr. 1B	H314
Acute Tox. 3	H311
Acute Tox. 3	H301

Concentration limits (Regulation (EC) No. 1272/2008)

Skin Irrit. 2	H315	>= 0,06 < 0,6
Eye Irrit. 2	H319	>= 0,06 < 0,6
Skin Corr. 1B	H314	>= 0,6
Skin Sens. 1	H317	>= 0,0015

Ingredients (Regulation (EC) No 648/2004)

5 % or over but less than 15 %:

non-ionic surfactants

constituent:

preservation agents:

METHYLCHLOROISOTHIAZOLINONE

METHYLISOTHIAZOLINONE

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

Remove contaminated, soaked clothing immediately and dispose of safely.

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After inhalation

Ensure supply of fresh air. No special measures required.

After skin contact

In case of contact with skin wash off with warm water. No special measures required.

After eye contact

In case of contact with the eyes, rinse immediately for at least 15 minutes with plenty of water. Eye treatment by an Occulist.

After ingestion

Rinse mouth thoroughly with water. If swallowed, seek medical advice immediately and show this container or label.

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

Until now no symptoms known so far.

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

Hints for the physician / treatment

Treat symptomatically

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Compatible with all usual extinguishing media.

Non suitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

None known

5.3. Advice for firefighters

Special protective equipment for fire-fighting

In case of combustion use a suitable breathing apparatus.

Other information

Fire residues and contaminated fire-fighting water must be disposed of in accordance with the local regulations.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

High risk of slipping due to leakage/spillage of product. Use personal protective clothing.

6.2. Environmental precautions

Do not discharge into the subsoil/soil. Do not discharge into surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (eg sand, kieselguhr, universal binder). Rinse away rest with plenty of water.

6.4. Reference to other sections

Refer to protective measures listed in Sections 7 and 8.

SECTION 7: Handling and storage

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7.1. Precautions for safe handling

Advice on safe handling

Keep container tightly closed. Observe the usual precautions for handling chemicals. Provide good ventilation of working area (local exhaust ventilation if necessary).

Advice on protection against fire and explosion

Keep away from sources of ignition - No smoking.

7.2. Conditions for safe storage, including any incompatibilities

Recommended storage temperature

Value \geq 5 \leq 25 °C

Storage stability

Storage life: 3 years

Requirements for storage rooms and vessels

Keep only in the original container. Storage rooms must be properly ventilated.

Further information on storage conditions

Keep locked up and out of the reach of children. Keep container tightly closed; open and handle with care.

7.3. Specific end use(s)

For industrial application only.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Other information

There is not known any national exposure limit.

Derived No/Minimal Effect Levels (DNEL/DMEL)

Sodium cumenesulphonate

Reference substance	Sodium cumenesulphonate	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	7,6	mg/kg/d

Type of value	Sodium cumenesulphonate	
Reference group	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	inhalative	
Mode of action	Systemic effects	
Concentration	53,6	mg/m ³

Type of value	Sodium cumenesulphonate	
Reference group	Derived No Effect Level (DNEL)	
Reference group	Consumer	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	3,8	mg/kg/d

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Type of value	Sodium cumenesulphonate	
Reference group	Derived No Effect Level (DNEL)	
Duration of exposure	Consumer	
Route of exposure	Long term	
Mode of action	inhalative	
Concentration	Systemic effects	
	13,2	mg/m ³

Type of value	Sodium cumenesulphonate	
Reference group	Derived No Effect Level (DNEL)	
Duration of exposure	Consumer	
Route of exposure	Long term	
Mode of action	oral	
Concentration	Systemic effects	
	3,8	mg/kg/d

Potassium cumenesulphonate

Reference substance	Potassium cumenesulphonate	
Type of value	Derived No Effect Level (DNEL)	
Reference group	Worker	
Duration of exposure	Long term	
Route of exposure	dermal	
Mode of action	Systemic effects	
Concentration	7,6	mg/kg/d

Type of value	Potassium cumenesulphonate	
Reference group	Derived No Effect Level (DNEL)	
Duration of exposure	Worker	
Route of exposure	Long term	
Mode of action	inhalative	
Concentration	Systemic effects	
	53,6	mg/m ³

Type of value	Potassium cumenesulphonate	
Reference group	Derived No Effect Level (DNEL)	
Duration of exposure	Consumer	
Route of exposure	Long term	
Mode of action	dermal	
Concentration	Systemic effects	
	3,8	mg/kg/d

Type of value	Potassium cumenesulphonate	
Reference group	Derived No Effect Level (DNEL)	
Duration of exposure	Consumer	
Route of exposure	Long term	
Mode of action	inhalative	
Concentration	Systemic effects	
	13,2	mg/m ³

Type of value	Potassium cumenesulphonate	
Reference group	Derived No Effect Level (DNEL)	
Duration of exposure	Consumer	
Route of exposure	Long term	
Mode of action	oral	
Concentration	Systemic effects	
	3,8	mg/kg/d

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Predicted No Effect Concentration (PNEC)**Sodium cumenesulphonate**

Reference substance	Sodium cumenesulphonate	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,23	mg/l
Type of value	Sodium cumenesulphonate	
Type	PNEC	
Conditions	Saltwater	
Concentration	Intermittend 2,3	mg/l
Type of value	Sodium cumenesulphonate	
Type	PNEC	
Concentration	Sewage treatment plant (STP) 100	mg/l

Potassium cumenesulphonate

Reference substance	Potassium cumenesulphonate	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,23	mg/l
Type of value	Potassium cumenesulphonate	
Type	PNEC	
Conditions	Saltwater	
Concentration	Intermittend 2,3	mg/l
Type of value	Potassium cumenesulphonate	
Type	PNEC	
Concentration	Sewage treatment plant (STP) 100	mg/l

8.2. Exposure controls**General protective and hygiene measures**

Avoid prolonged and/or repeated contact with skin. Use barrier skin cream. Do not eat, drink or smoke during work time. Observe the usual precautions for handling chemicals.

Respiratory protection

Not necessary, but do not inhale vapours.

Hand protection

In case of intensive contact wear protective gloves.

Appropriate Material	butyl	
Material thickness	=	0,5 mm
Breakthrough time	>=	120 min
Appropriate Material	nitrile	

z.B.: BRILLANT nitrilX-TREME, Art.-Nr. 4451001000 oder BRILLANT nitrilSTYLE, Art.-Nr. 4451001300

Eye protection

Safety glasses

Body protection

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Clothing as usual in the chemical industry.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form	liquid, clear			
Colour	yellow			
Odour	Product specific			
pH value				
Value	appr.	2,55	to	3
Concentration/H ₂ O		100	%	
Temperature		20	°C	
Remarks	acidic			
Freezing point				
Value	appr.	-4	to	4 °C
Sublimation point				
Remarks	not determined			
Initial boiling point and boiling range				
Value	appr.	100		°C
Flash point				
Value	>	100		°C
Remarks	Not applicable			
Evaporation rate				
Remarks	not determined			
Evaporation rate (ether = 1) :				
Remarks	not determined			
Vapour pressure				
Remarks	not determined			
Vapour density				
Remarks	not determined			
Density				
Value	=	1,04		g/cm ³
Temperature	=	20	°C	
Solubility in water				
Remarks	Completely miscible			
Solubility(ies)				
Remarks	not determined			
Partition coefficient: n-octanol/water				
Remarks	not determined			
Auto-ignition temperature				
Remarks	not determined			
Combustion factor				
Remarks	not determined			
Decomposition temperature				
Remarks	No decomposition if used as prescribed.			
Viscosity				
Remarks	not determined			

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Oxidising properties

evaluation None known

9.2. Other information**Bulk density**

Remarks not determined

Packed bulk density

Remarks not determined

Solids content

Remarks not determined

Saturation Concentration

Remarks not determined

Critical point

Remarks not determined

Dissociation constant

Remarks not determined

Surface tension

Remarks not determined

Other information

None known

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

Reactions with impurities.

10.2. Chemical stability

Protect from extreme heat and cold.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Keep at temperature not exceeding 30 °C.

Decomposition temperature

Remarks No decomposition if used as prescribed.

10.5. Incompatible materials

No hazardous reactions when stored and handled according to prescribed instructions.

10.6. Hazardous decomposition products

No hazardous decomposition products known.

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Acute oral toxicity (Components)****FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED**

Species	rat	
LD50	> 2000	mg/kg
Source	Manufacturer's data	

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Potassium cumenesulphonate

Species	rat	
LD50	> 2000	mg/kg
Method	OECD 401	
Source	Manufacturer's data	

FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED

Species	rat	
LD50	> 2000	mg/kg
Source	Manufacturer's data	

Citric acid, anhydrous

Species	rat	
LD50	= 3000	mg/kg
Source	Manufacturer's data	

Acute dermal toxicity (Components)**Potassium cumenesulphonate**

Species	rabbit	
LD50	> 2000	mg/kg
Method	OECD 402	
Source	Manufacturer's data	

Acute inhalative toxicity (Components)**Potassium cumenesulphonate**

Species	rat	
LC50	> 5	mg/l
Duration of exposure	= 232	min
Source	Manufacturer's data	

Skin corrosion/irritation

evaluation	irritant
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Serious eye damage/irritation

evaluation	irritant - risk of serious damage to eyes
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Sensitization

evaluation	non-sensitizing
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Subacute, subchronic, chronic toxicity

Remarks	not determined
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Mutagenicity

Remarks	not determined
---------	----------------

Reproductive toxicity

Remarks	not determined
---------	----------------

Carcinogenicity

Remarks	not determined
---------	----------------

Specific Target Organ Toxicity (STOT)

Remarks	not determined
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Experience in practice

Inhalation may lead to irritation of the respiratory tract.

Other information

Product specific toxicological data are not known.

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

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Fish toxicity (Components)**FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED**

Species	zebra fish (<i>Brachydanio rerio</i>)			
LC50	=	0,1	to	1 mg/l
Duration of exposure	=	96	h	
Source	Manufacturer's data			

Sodium cumenesulphonate

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)			
LC50	>	100		mg/l
Duration of exposure	=	96	h	
Source	Literature value			

Potassium cumenesulphonate

Species	rainbow trout (<i>Oncorhynchus mykiss</i>)			
LC50	>	100		mg/l
Duration of exposure	=	96	h	
Source	Literature value			

FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED

Species	golden orfe (<i>Leuciscus idus</i>)			
LC50	=	1	to	10 mg/l
Duration of exposure	=	48	h	
Source	Manufacturer's data			

Citric acid, anhydrous

Species	golden orfe (<i>Leuciscus idus</i>)			
LC50	=	440	to	760 mg/l
Duration of exposure	=	96	h	
Source	Manufacturer's data			

Daphnia toxicity (Components)**FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED**

EC50	=	1	to	10 mg/l
Duration of exposure	=	48	h	
Source	Manufacturer's data			

Sodium cumenesulphonate

Species	Daphnia magna			
EC50	>	100		mg/l
Duration of exposure	=	45	h	
Source	Literature value			

Potassium cumenesulphonate

Species	Daphnia magna			
EC50	>	100		mg/l
Duration of exposure	=	45	h	
Source	Literature value			

FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED

LC50	=	1	to	10 mg/l
Duration of exposure	=	48	h	
Source	Manufacturer's data			

Citric acid, anhydrous

Species	Daphnia magna			
EC50	=	120		mg/l
Duration of exposure	=	72	h	
Source	Manufacturer's data			

Citric acid, anhydrous

Species	Entosiphon sulcatum			
EC5	=	485		mg/l

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Duration of exposure = 72 h
Source Manufacturer's data

Algae toxicity (Components)**FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED**

EC50 = 0,1 to 1 mg/l
Duration of exposure = 72 h
Source Manufacturer's data

Sodium cumenesulphonate

EC50 > 100 mg/l
Duration of exposure = 96 h
Source Literature value

Potassium cumenesulphonate

EC50 > 100 mg/l
Duration of exposure = 96 h
Source Literature value

Citric acid, anhydrous

IC5 = 640 mg/l
Duration of exposure = 7 Days
Source Manufacturer's data

Citric acid, anhydrous

Species Microcystis aeruginosa (blue alge)
IC5 = 80 mg/l
Duration of exposure = 8 Days
Source Manufacturer's data

Bacteria toxicity (Components)**FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED**

Species Pseudomonas putida
EC10 > 1000 mg/l
Source Manufacturer's data

Sodium cumenesulphonate

Species activated sludge
EC10 > 1000 mg/l
Duration of exposure = 3 h
Method OECD 209

Potassium cumenesulphonate

Species activated sludge
EC10 > 1000 mg/l
Duration of exposure = 3 h
Method OECD 209

FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED

Species activated sludge
> 1000 mg/l

Citric acid, anhydrous

Species Pseudomonas putida
IC5 > 10000 mg/l
Duration of exposure = 16 h
Source Manufacturer's data

12.2. Persistence and degradability**General information**

not determined

Biodegradability

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Reference substance	Sodium cumenesulphonate	
Value	> 60	%
Duration of test evaluation	6 d	
Method	Readily biodegradable (according to OECD criteria)	
Source	OECD 301 B	
	Literature value	

12.3. Bioaccumulative potential**General information**

not determined

Partition coefficient: n-octanol/water

Remarks not determined

12.4. Mobility in soil**General information**

not determined

12.5. Results of PBT and vPvB assessment**General information**

not determined

12.6. Other adverse effects**General information**

not determined

General information / ecology

The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No.648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer.

SECTION 13: Disposal considerations**13.1. Waste treatment methods****Disposal recommendations for the product**

EWC waste code 20 01 29* detergents containing dangerous substances

The listed waste code numbers, according to the European Waste Catalogue (EWC), are to be understood as a recommendation. A final decision must be made in agreement with the regional waste disposal company.

Disposal recommendations for packaging

Completely emptied packagings can be given for recycling.

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

Non-dangerous goods

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class -

14.4. Packing group

Packing group -

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14.5. Environmental hazards

-

Marine transport IMDG/GGVSee

The product does not constitute a hazardous substance in sea transport.

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class

-

14.4. Packing group

Packing group

-

14.5. Environmental hazards

-

Air transport ICAO/IATA

The product does not constitute a hazardous substance in air transport.

14.1. UN number

UN -

14.2. UN proper shipping name

-

14.3. Transport hazard class(es)

Class

-

14.4. Packing group

Packing group

-

14.5. Environmental hazards

-

Information for all modes of transport**14.6. Special precautions for user**

Non-dangerous goods

Other information**14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code**

not determined

SECTION 15: Regulatory information**15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture****5 % or over but less than 15 %:**

non-ionic surfactants

Further ingredients

A mixture of: 5-Chloro-2-methyl-2h-isothiazol-3-one [EC-no. 247-500-7] and 2-Methyl-2H-isothiazol-3-one [EC-no. 220-239-6] (3:1)

VOC

VOC (CH) = 0,0 %

VOC (EU) = 0,0 %

15.2. Chemical safety assessment

For this preparation a chemical safety assessment has not been carried out.

SECTION 16: Other information

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Alterations/supplements: Alterations to the previous edition are marked with an asterisk (*) in the left-hand margin.

Hazard statements listed in Chapter 3

H301	Toxic if swallowed.
H302	Harmful 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.
H319	Causes serious eye irritation.
H331	Toxic if inhaled.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

CLP categories listed in Chapter 3

Acute Tox. 3	Acute toxicity, Category 3
Acute Tox. 4	Acute toxicity, Category 4
Aquatic Acute 1	Hazardous to the aquatic environment, acute, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment, chronic, Category 1
Aquatic Chronic 3	Hazardous to the aquatic environment, chronic, Category 3
Eye Dam. 1	Serious eye damage, Category 1
Eye Irrit. 2	Eye irritation, Category 2
Skin Corr. 1B	Skin corrosion, Category 1B
Skin Irrit. 2	Skin irritation, Category 2
Skin Sens. 1	Skin sensitization, Category 1

Abbreviations

ADR: Accord européen relatif au transport international des marchandises Dangereuses par Route
 IMDG: International Maritime Code for Dangerous Goods
 IATA: International Civil Aviation Organization
 CAS: Chemical Abstracts Service
 EINECS: European Inventory of Existing Commercial Chemical Substances
 VOC: Volatile Organic Compound
 NOEL: No observable effect level
 NOEC: No observable effect concentration
 LD: Lethal dose
 LC: Lethal concentration
 REACH: Registration, Evaluation, Autohorisation and Restriction of Chemicals
 IMO: International Maritime Organization
 DNEL: Derived no effect level
 PNEC: Predicted no effect concentration
 RID: Règlement concernant le transport international ferroviaire de marchandises dangereuses
 EC: European Community
 EU: European Union
 GHS: Globally Harmonized System of classification and Labelling of Chemicals
 MAK: Maximale Arbeitsplatz-Konzentration
 INCI: International Nomenclature of Cosmetic Ingredients
 UN: United Nations

Supplemental information

Relevant changes compared with the previous version of the safety data sheet are marked with: ***
 This information is based on our present state of knowledge. However, it should not constitute a guarantee for any specific product properties and shall not establish a legally valid relationship.



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