

Trade name: ecosol NEUTRAL

Substance number: SUB302020130000

Version: 4 / EU

Date revised: 23.12.2015

the date of issue: 09.03.07

Replaces Version: 3 / EU

Print date: 23.12.15

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

1.1. Product identifier

ecosol NEUTRAL

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) *******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)

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

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Concentration	>=	1	<	10	%
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Classification (Regulation (EC) No. 1272/2008)	
Eye Irrit. 2	H319

Potassium cumenesulphonate

CAS No. 164524-02-1

EINECS no. 629-764-9

Registration no. 01-2119489427-24-0000

Concentration	>=	1	<	10	%
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Classification (Regulation (EC) No. 1272/2008)	
Eye Irrit. 2	H319

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	%
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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.

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

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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

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.

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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	
	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	
	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

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

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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	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

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

Reference substance	Sodium cumenesulphonate	
Type of value	PNEC	
Type	Freshwater	
Concentration	0,23	mg/l

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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

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	dark blue
Odour	Product specific

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pH value

Value	7,5	to	8,0
Concentration/H ₂ O	100	%	
Temperature	20	°C	
Remarks	neutral		

Freezing point

Value	appr. -4	to	4	°C
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Sublimation point

Remarks	not determined
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Initial boiling point and boiling range

Value	appr. 100	°C
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Flash point

Value	> 100	°C
Remarks	Not applicable	

Evaporation rate

Remarks	not determined
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Evaporation rate (ether = 1) :

Remarks	not determined
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Vapour pressure

Remarks	not determined
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Vapour density

Remarks	not determined
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Density

Value	appr. 1,01	g/cm ³
Temperature	20	°C

Solubility in water

Remarks	Completely miscible
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Solubility(ies)

Remarks	not determined
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Partition coefficient: n-octanol/water

Remarks	not determined
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Auto-ignition temperature

Remarks	not determined
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Combustion factor

Remarks	not determined
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Decomposition temperature

Remarks	No decomposition if used as prescribed.
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Viscosity**dynamic**

Value	appr. 60	mPa.s
Temperature	20	°C

Oxidising properties

evaluation	None known
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9.2. Other information**Bulk density**

Remarks	not determined
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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	

Potassium cumenesulphonate

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

FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED

Species	rat
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LD50	> 2000	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
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Reproductive toxicity

Remarks	not determined
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Carcinogenicity

Remarks	not determined
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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****Fish toxicity**

Reference substance	Sodium cumenesulphonate	
CAS No.	15763-76-5	
Species	carp (Cyprinus carpio)	
LC50	> 100	mg/l
Duration of exposure	96	h
Method	OECD TG 203	
Source	Literature value	

Reference substance	FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED
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CAS No.	POLYMER	
Species	golden orfe (<i>Leuciscus idus</i>)	
LC50	1 to 10	mg/l
Duration of exposure	48 h	
Source	Literature value	

Reference substance	FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED
CAS No.	POLYMER
Species	zebra fish (<i>Brachydanio rerio</i>)
LC50	0,1 to 1 mg/l
Duration of exposure	96 h
Source	Literature value

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

Daphnia toxicity

Reference substance	FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED
CAS No.	POLYMER
EC50	1 to 10 mg/l
Duration of exposure	48 h
Source	Literature value

Reference substance	FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED
CAS No.	POLYMER
EC50	0,1 to 10 mg/l
Duration of exposure	48 h
Source	Literature value

Reference substance	Sodium cumenesulphonate
CAS No.	15763-76-5
Species	<i>Daphnia magna</i>
EC50	> 100 mg/l
Duration of exposure	48 h
Method	OECD TG 202
Source	Literature value

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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				

Algae toxicity

Reference substance	Sodium cumenesulphonate				
CAS No.	15763-76-5				
Species	Scenedesmus subspicatus				
EC50	>	100			mg/l
Duration of exposure		72	h		
Method	OECD TG 201				
Source	Literature value				

Reference substance	FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED				
CAS No.	POLYMER				
EC50	0,1	to	1		mg/l
Duration of exposure		72	h		

Reference substance	FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED				
CAS No.	POLYMER				
EC50	0,1	to	1		mg/l
Duration of exposure		72	h		

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				

Bacteria toxicity

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Reference substance	FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED
CAS No.	POLYMER
Species	Pseudomonas putida
EC10	> 1000 mg/l
Source	Literature value

Reference substance	FATTY ALCOHOL, ETHOXYLATED, PROPOXYLATED
CAS No.	POLYMER
Species	activated sludge
	> 1000 mg/l
Method	DEV-L2 (Warburg)

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

12.2. Persistence and degradability**General information**

not determined

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

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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

-

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

-

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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	%
VOC (EU)	=	0	%

15.2. Chemical safety assessment

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

SECTION 16: Other information

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

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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.

