



**EC 95**

Print date 10.04.2025  
Revision date 10.04.2025  
Version 1.2 (en)  
replaces version of 28.09.2022 (1.1)

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

**1.1 Product identifier**

**Trade name/designation** EC 95  
**Unique Formula Identifier** UFI: 3360-30S8-Q00H-TWJF

**Hazard components**

Sulfonic acids, C14-17-sec-alkane, sodium salts, Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl), 2-aminoethanol, Alcohols, secondary C11-15, ethoxylated, C10- fatty alcohol, ethoxylated

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

**Sector of uses [SU]**

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
SU3 Industrial uses

**Use of the substance/mixture**

Ultrasonic cleaning concentrate for jewellery and watch components to remove polishing pastes and general contamination for workshop and industry.

**Uses advised against**

Do not use for injecting or spraying.

**1.3 Details of the supplier of the safety data sheet**

**Supplier**

Elma Schmidbauer GmbH  
Gottlieb-Daimler-Str. 17  
D-78224 Singen (Htwl.)  
Telephone +49 7731 882-0  
Telefax +49 7731 882-266  
E-mail info@elma-ultrasonic.com  
Website www.elma-ultrasonic.com

Department responsible for information:  
Chemie/Labor: Email: chemlab@elma-ultrasonic.com

**1.4 Emergency telephone number**

Vergiftungs-Informations-Zentrale Freiburg (Sprache/Language: DE, +49 761 19240  
EN)

**\* SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

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

Met. Corr. 1, H290	On basis of test data.
Skin Corr. 1B, H314	Calculation method.
Eye Dam. 1, H318	Calculation method.
STOT SE 3, H335	Calculation method.
Aquatic Chronic 3, H412	Calculation method.

**Hazard statements for physical hazards**

H290 May be corrosive to metals.

**Hazard statements for health hazards**

H314 Causes severe skin burns and eye damage.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.



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**Hazard statements for environmental hazards**

H412 Harmful to aquatic life with long lasting effects.

**2.2 Label elements**

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

**Hazard components**

Sulfonic acids, C14-17-sec-alkane, sodium salts, Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl), 2-aminoethanol, Alcohols, secondary C11-15, ethoxylated, C10- fatty alcohol, ethoxylated

**Hazard pictograms**



GHS05



GHS07

**Signal word**

Danger

**Hazard statements**

H290 May be corrosive to metals.  
H314 Causes severe skin burns and eye damage.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary statements**

P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves/protective clothing and eye protection/face protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor.  
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 doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
P332 + P313 If skin irritation occurs: Get medical advice/attention.  
P312 Call a POISON CENTER/doctor if you feel unwell.

**Other labelling**

Labelling for contents according to regulation (EC) No. 648/2004:  
5 - 15% anionic surfactants  
15 - 30% non-ionic surfactants  
< 5% soap

**\* 2.3 Other hazards**

**\* Adverse human health effects and symptoms**

Acute Tox. 5 (oral) H303: May be harmful if swallowed.  
This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**\* Adverse environmental effects**

Aquatic Acute 2 H401: Toxic to aquatic life.  
This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**Results of PBT and vPvB assessment**

The product does not contain any PBT-/vPvB-substances according to the recipe.

**\* SECTION 3: Composition / information on ingredients**

**3.1 Substances**

not applicable

**\* 3.2 Mixtures**



# Safety Data Sheet according to Regulation (EC) No 1907/2006 (REACH)

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### Hazardous ingredients

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
34590-94-8	252-104-2		(2-methoxymethylethoxy)-propanol	10 - 20 weight-%		
97489-15-1	307-055-2		Sulfonic acids, C14-17-sec-alkane, sodium salts	5 - 15 weight-%	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 3; H412	Skin Irrit. 2;H315: C>10% Eye Dam. 1;H318: C>15% Eye Irrit. 2;H319: 10%<C=<15%
68155-07-7	931-329-6		Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	5 - 15 weight-%	Skin Irrit. 2; H315 Eye Dam. 1; H318 Aquatic Chronic 2; H411	
141-43-5	205-483-3	603-030-00-8	2-aminoethanol	5 - 15 weight-%	Met. Corr. 1 ; H290 Acute Tox. 4; H302 Acute Tox. 4 ; H312 Acute Tox. 4 ; H332 Skin Corr. 1B; H314 Eye Dam. 1; H318 STOT SE 3; H335 Aquatic Chronic 3; H412	STOT SE 3;H335: C>=5%
68131-40-8			Alcohols, secondary C11-15, ethoxylated	< 5 weight-%	Acute Tox. 4; H302 Acute Tox. 4; H332 Skin Irrit. 2; H315 Eye Dam. 1; H318	
102-71-6	203-049-8		triethanolamine [2,2',2"-nitrioltriethanol]	< 5 weight-%		
160875-66-1			C10- fatty alcohol, ethoxylated	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	ATE(oral): 500 mg/kg
REACH No.			Substance name			
01-2119450011-60			(2-methoxymethylethoxy)-propanol			
01-2119489924-20			Sulfonic acids, C14-17-sec-alkane, sodium salts			
01-2119490100-53			Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)			
01-2119486455-28			2-aminoethanol			
Not relevant (polymer).			Alcohols, secondary C11-15, ethoxylated			
01-2119486482-31			triethanolamine [2,2',2"-nitrioltriethanol]			
Not relevant (polymer).			C10- fatty alcohol, ethoxylated			

### Additional information

Aqueous alkaline mixture from anionic and non-ionic surfactants, complexing agent, cosolvent, amines and dye.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

#### General information

Remove contaminated, saturated clothing immediately.  
In the event of persistent symptoms receive medical treatment.

#### Following inhalation

Provide fresh air.  
In case of inhaling spray mist, consult a physician.  
In the event of symptoms refer for medical treatment.

#### Following skin contact

In case of contact with skin wash off immediately with plenty of water.  
In case of skin irritation, consult a physician.  
Get medical advice/attention if you feel unwell.



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**After eye contact**

After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

**Following ingestion**

Do NOT induce vomiting.  
If swallowed seek medical advice immediately and show the doctor packing or label.  
Rinse mouth immediately and drink plenty of water.  
Medical treatment necessary.

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

**Symptoms**

No further informations available.

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

**Notes for the doctor**

No further informations available.

**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

alcohol resistant foam  
Extinguishing powder  
Carbon dioxide (CO<sub>2</sub>)  
Water spray jet

**5.2 Special hazards arising from the substance or mixture**

**Hazardous combustion products**

In case of fire formation of dangerous gases possible.  
In the event of fire the following can be released:  
Pyrolysis products, toxic  
Ammonia (NH<sub>3</sub>)  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide

**5.3 Advice for firefighters**

**Special protective equipment for firefighters**

Do not inhale explosion and combustion gases.

**Additional information**

Fire class  
B (Fires of liquids or liquid turning substances).  
Co-ordinate fire-fighting measures to the fire surroundings.

**SECTION 6: Accidental release measures**

**6.1 Personal precautions, protective equipment and emergency procedures**

**For non-emergency personnel**

Provide adequate ventilation.  
Use personal protection equipment.  
Special danger of slipping by leaking/spilling product.

**For emergency responders**

Ensure adequate ventilation.  
Personal protection equipment  
Use personal protection.  
Use breathing apparatus if exposed to vapours/dust/aerosol.  
Forms slippery surfaces with water.  
Special danger of slipping by leaking/spilling product.



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**6.2 Environmental precautions**

Do not allow to enter into surface water or drains.  
Do not allow to enter into soil/subsoil.

**6.3 Methods and material for containment and cleaning up**

**For containment**

Suitable material for taking up:  
Sand  
Sawdust  
Universal binder  
Kieselguhr  
Flush away residues with water.  
After taking up the material dispose according to regulation.

**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**

**Protective measures**

Handle and open container with care.  
Care for thoroughly room ventilation.  
Avoid:  
generation/formation of aerosols  
Do not inhale vapours/aerosols.  
Avoid contact with eyes and skin.  
Keep the packing dry and well sealed to prevent contamination and absorption of humidity.  
The product is:  
Not readily flammable.  
Usual measures for fire prevention.

**Advices on general occupational hygiene**

Make available sufficient washing facilities  
Remove contaminated, saturated clothing immediately.  
Keep separated from food and feed.  
Wash hands before breaks and after work.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep only in unopened original container.  
Keep container tightly closed.

**Materials to avoid**

Do not store together with:  
Acid  
Oxidising agent

**Further information on storage conditions**

Keep locked up and out of reach of children.  
Protect from heat and direct solar radiation.  
Do not keep at temperatures below 5°C.  
Do not keep at temperatures above 30°C.  
Storage time: 24 months.

**7.3 Specific end use(s)**

**Recommendation**

Care for thoroughly room ventilation for higher bath temperatures.  
See section 1.2  
see section 8.

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**\* SECTION 8: Exposure controls/personal protection****\* 8.1 Control parameters****\* Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
34590-94-8	252-104-2	(2-Methoxymethylethoxy)-propanol	50 [ml/m <sup>3</sup> (ppm)] 308 [mg/m <sup>3</sup> ] skin resorptive 2000/39/EC
141-43-5	205-483-3	2-Aminoethanol	1 [ml/m <sup>3</sup> (ppm)] 2,5 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 3 Short-term(mg/m <sup>3</sup> ) 7,6 skin resorptive 2006/15/EC
34590-94-8	252-104-2	(2-Methoxymethylethoxy)propanol	50 [ml/m <sup>3</sup> (ppm)] 308 [mg/m <sup>3</sup> ] (IE)
141-43-5	205-483-3	2-Aminoethanol	1 [ml/m <sup>3</sup> (ppm)] 2,5 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 3 (1) Short-term(mg/m <sup>3</sup> ) 7,6 (1) (1) 15 minutes reference period (IE)
102-71-6	203-049-8	Triethanolamine	5 [mg/m <sup>3</sup> ] (IE)
34590-94-8	252-104-2	(2-Methoxymethylethoxy)propanol	50 [ml/m <sup>3</sup> (ppm)] 308 [mg/m <sup>3</sup> ] (UK)
141-43-5	205-483-3	2-Aminoethanol	1 [ml/m <sup>3</sup> (ppm)] 2,5 [mg/m <sup>3</sup> ] Short-term(ml/m <sup>3</sup> ) 3 (1) Short-term(mg/m <sup>3</sup> ) 7,6 (1) (1) 15 minutes average value (UK)

**\* DNEL worker**

CAS No	Substance name	DNEL value	DNEL type	Remark
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	7.5 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 50
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	1 mg/m <sup>3</sup>	long-term inhalative (local)	
141-43-5	2-aminoethanol	3 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 100
141-43-5	2-aminoethanol	0.51 mg/m <sup>3</sup>	long-term inhalative (local)	
141-43-5	2-aminoethanol	1 mg/m <sup>3</sup>	long-term inhalative (systemic)	Assessment factor 75
68155-07-7	Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	4.16 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 12
97489-15-1	Sulfonic acids, C14-17-sec-alkane, 5 mg/kg bw/day sodium salts		long-term dermal (systemic)	Assessment factor 40
97489-15-1	Sulfonic acids, C14-17-sec-alkane, 35 mg/m <sup>3</sup> sodium salts		long-term inhalative (systemic)	Assessment factor 10

**\* PNEC**

CAS No	Substance name	PNEC Value	PNEC type	Remark
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	0.32 mg/L	aquatic, freshwater	Assessment factor 50
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	10 mg/L	sewage treatment plant (STP)	Assessment factor 100



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CAS No	Substance name	PNEC Value	PNEC type	Remark
141-43-5	2-aminoethanol	0.07 mg/L	aquatic, freshwater	Assessment factor 10
141-43-5	2-aminoethanol	100 mg/L	sewage treatment plant (STP)	Assessment factor 10
68155-07-7	Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	0.007 mg/L	aquatic, freshwater	Assessment factor 10
68155-07-7	Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	830 mg/L	sewage treatment plant (STP)	Assessment factor 1
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	0.06 mg/L	aquatic, freshwater	Assessment factor 10
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	600 mg/L	sewage treatment plant (STP)	Assessment factor 1

## 8.2 Exposure controls

### Appropriate engineering controls

#### Technical measures to prevent exposure

Technical exhaustion for long-term expositions or higher bath temperatures.

### Personal protection equipment

#### Eye/face protection

tightly fitting goggles

#### Hand protection

chemical-resistant gloves

Glove material specification [make/type, thickness]: FKM, 0.4mm.

Glove material specification [make/type, thickness]: Butyl, 0.5mm.

#### Body protection:

Light protective clothing.

#### Respiratory protection

Respiratory protection necessary at:

aerosol or mist formation

Suitable respiratory protection apparatus:

Short term: filter apparatus, Filter A/P2

### Environmental exposure controls

#### Technical measures to prevent exposure

Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

Avoid penetration into the subsoil/soil.

Do not discharge into surface waters.

### Additional information

Occupational exposure limits for triethanolamine.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### Physical state

liquid

#### Colour

dark blue

#### Odour

mild



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**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:			(2-methoxymethylethoxy)-propanol: 210 - 600mg/m <sup>3</sup> (34 - 97 ppm).
Odour threshold:			2-aminoethanol: 5.3 - 11 mg/m <sup>3</sup> (2.1 - 4.3 ppm).
Melting point/freezing point	Solidifying point		not determined
Boiling point or initial boiling point and boiling range	≥ 100 °C		
flammability	solid		not applicable
flammability	gaseous		not applicable
Lower and upper explosion limit	Upper explosion limit 14 Vol-%		Value of (2-methoxymethylethoxy)-propanol.
Lower and upper explosion limit	Lower explosion limit 1.1 Vol-%		Value of (2-methoxymethylethoxy)-propanol.
Flash point			No flash point up to 100 °C.
Auto-ignition temperature	205 °C		Value of (2-methoxymethylethoxy)-propanol.
Decomposition temperature	≥ 100 °C		
pH	in delivery state approx. 11.5 (20°C)		
Viscosity	dynamic 33.6 mPa*s (20°C)		
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	3.5- 4.2		Value of Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl).
Vapour pressure	approx. 24 hPa (20°C)		
Density and/or relative density	1.05 g/cm <sup>3</sup> (20°C)		
Relative vapour density	5.12		Value of (2-methoxymethylethoxy)-propanol.
particle characteristics			not applicable (liquid).

**9.2 Other information**

**Information with regard to physical hazard classes**

**Explosives**

**Assessment/classification**

The mixture does not contain any explosive substances (CLP I 2.1.4.3 a).

CLP I 2.1.4.3 a: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with explosive properties.

**flammable gases**

**Assessment/classification**

not applicable (liquid).



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**Aerosols**

**Assessment/classification**

not relevant - no aerosol.  
The classification criteria for this hazard class are not met by definition.

**Oxidising gas**

**Assessment/classification**

not applicable (liquid).

**Gases under pressure**

**Assessment/classification**

not applicable (liquid - no dissolved gas).

**flammable liquids**

**Safety characteristics**

	Value	Method, Result	Source, Remark
Flash point (°C)	> 100		

**Assessment/classification**

The mixture is not classified as flammable liquids.

**flammable solids**

**Assessment/classification**

not applicable (liquid).

**Self-reactive substances and mixtures**

**Assessment/classification**

The mixture does not contain any self-reactive substances (CLP I 2.8.4.2 a).  
CLP I 2.8.4.2 a: There are no chemical groups present in the molecule associated with explosive or self reactive properties.

**Pyrophoric liquids**

**Assessment/classification**

The mixture does not contain any pyrophoric substances - not spontaneously flammable (CLP I 2.9.4.1).  
CLP I 2.9.4.1: The classification procedure for pyrophoric liquids need not be applied when experience in manufacture or handling shows that the substance or mixture does not ignite spontaneously on coming into contact with air at normal temperatures (i.e. the substance is known to be stable at room temperature for prolonged periods of time (days)).

**Pyrophoric solids**

**Assessment/classification**

not applicable (liquid).

**self-heating substances and mixtures**

**Assessment/classification**

The mixture does not contain any self-heating substances.

**Substances or mixtures which, in contact with water, emit flammable gases**

**Assessment/classification**

not relevant - in contact with water releases no flammable gases (CLP I 2.12.4.1).  
CLP I 2.12.4.1: The classification procedure for this class need not be applied if: (a) the chemical structure of the substance or mixture does not contain metals or metalloids; or (b) experience in production or handling shows that the substance or mixture does not react with water, e.g. the substance is manufactured with water or washed with water; or (c) the substance or mixture is known to be soluble in water to form a stable mixture.

**Oxidising liquids**

**Assessment/classification**

The mixture does not contain any oxidising substances.



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**Oxidising solids**

**Assessment/classification**  
not applicable (liquid).

**Organic peroxides**

**Assessment/classification**  
The mixture does not contain any organic peroxides.

**Corrosive to metals**

**Safety characteristics**

	Value	Method, Result	Source, Remark
Corrosion rate (mm aluminium/year)	> 6.25 mm/a	Expert judgement and weight of evidence determination.	
Corrosion rate (mm steel/year)			not available

**Assessment/classification**  
The mixture is classified as corrosive to metals (Met. Corr. 1 H290).

**Desensitised explosives**

**Assessment/classification**  
The mixture does not contain any desensitised explosive substances.

**Other safety characteristics**

	Value	Method	Source, Remark
Evaporation rate			Water: 0.36 (ASTM D3539).
Evaporation rate			(2-methoxymethylethoxy)-propanol: ~0.02 (ASTM D3539) / ~400 (DIN 53170).
Solvent content	10- 20 %		
Explosive properties			none
Oxidising properties			none

**Other information**  
No further relevant informations available.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Exothermic reaction with:  
No further hazardous reactions known if used as directed.

**10.2 Chemical stability**

Stable at ambient temperature.

**10.3 Possibility of hazardous reactions**

Reactions with acids.  
Reactions with oxidising agents.  
Reaction with nitric acid  
Reactions with light metals, with evolution of hydrogen.

**10.4 Conditions to avoid**

Heat and direct solar radiation.



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**10.5 Incompatible materials**

Acid  
Oxidising agent  
Nitric acid  
Acid chlorides, inorganic  
Corrodes aluminium.

**10.6 Hazardous decomposition products**

No decomposition if used as directed.

**\* SECTION 11: Toxicological information**

**11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008**

**\* Acute toxicity**

**\* Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	3147 mg/kg	ATE: Acute Toxicity Estimate	The acute oral toxicity is corresponding to GHS-category 5.
	CAS No141-43-5 2-aminoethanol LD50: 1089 mg/kg Species Rat		
	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts LD50: approx. 1250 mg/kg Species Rat		
	CAS No68131-40-8 Alcohols, secondary C11-15, ethoxylated LD50: > 412 mg/kg Species Rat		
Acute dermal toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No141-43-5 2-aminoethanol LD50: 1025 mg/kg Species Rabbit		
Acute inhalation toxicity	Acute inhalation toxicity (vapour) > 50 mg/L	ATE: Acute Toxicity Estimate	
	CAS No141-43-5 2-aminoethanol Acute inhalation toxicity (vapour) 11 mg/L	ATE: Acute Toxicity Estimate	
	CAS No68131-40-8 Alcohols, secondary C11-15, ethoxylated Acute inhalation toxicity (dust/mist) LC50: 1.06 mg/L Species Rat Exposure time 4 h		

**Assessment/classification**  
May be harmful if swallowed.



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**Skin corrosion/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Corrosive.	Calculation method.	

**Serious eye damage/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Corrosive	Calculation method.	

**Sensitisation to the respiratory tract**

**Assessment/classification**

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

**Skin sensitisation**

**Animal data**

Result / Evaluation	Dose / Concentration	Method	Source, Remark
The mixture is not classified as skin sensitiser.		Calculation method.	

**Germ cell mutagenicity**

**Assessment/classification**

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

**Carcinogenicity**

**Assessment/classification**

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

**Reproductive toxicity**

**Assessment/classification**

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

**Overall Assessment on CMR properties**

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.

**STOT-single exposure**

**STOT SE 1 and 2**

**Assessment/classification**

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

**STOT SE 3**

**Irritation to respiratory tract**

**Assessment/classification**

Respiratory irritant effect: STOT SE 3 H335: May cause respiratory irritation.

**Narcotic effects**

**Assessment/classification**

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

**STOT-repeated exposure**

**Assessment/classification**

The mixture is not classified as specific target organ toxicant (repeated exposure).  
Based on available data, the classification criteria are not met.



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**Aspiration hazard**

**Assessment/classification**

The mixture is not classified as aspiration hazardous.  
Based on available data, the classification criteria are not met.

**11.2 Information on other hazards**

**Information on other hazards**

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

**Other information**

Causes burns.  
Aerosols of product effect toxic in case of inhaling (Acute Tox. 4 H332: Harmful if inhaled.).

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 8.6 mg/L	calculated.	
	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts LC50: 2.8 mg/L		
	CAS No68155-07-7 Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl) LC50: 2.4 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 96 h	OECD 203	
Chronic (long-term) fish toxicity	CAS No141-43-5 2-aminoethanol LC50: 150 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 96 h		
	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts NOEC 0.85 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 28 d	OECD 204	
	CAS No68155-07-7 Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl) NOEC 0.32 mg/L Species Oncorhynchus mykiss (Rainbow trout) Test duration 28 d	OECD 215	



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	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) toxicity to crustacea	CAS No141-43-5 2-aminoethanol NOEC 1.24 mg/L Species <i>Oryzias latipes</i> (Ricefish) Test duration 41 d	OECD 210	
	EC50 9.1 mg/L	calculated.	
	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts EC50 9.2 mg/L Species <i>Daphnia magna</i> (Big water flea) Test duration 48 h	OECD 202	
Chronic (long-term) toxicity to aquatic invertebrate	CAS No68155-07-7 Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl) EC50 2.25 mg/L Species <i>Ceriodaphnia spec</i> Test duration 48 h		
	CAS No141-43-5 2-aminoethanol EC50 65 mg/L Species <i>Daphnia magna</i> (Big water flea) Test duration 48 h		
	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts NOEC 0.36 mg/L Species <i>Daphnia magna</i> (Big water flea) Test duration 22 d		
Acute (short-term) toxicity to algae and cyanobacteria	CAS No68155-07-7 Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl) NOEC 0.07 mg/L Species <i>Daphnia magna</i> (Big water flea) Test duration 21 d	OECD 211	
	CAS No141-43-5 2-aminoethanol NOEC 0.85 mg/L Species <i>Daphnia magna</i> (Big water flea) Test duration 21 d		
	EC50 9.3 mg/L	calculated.	
	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts EC50 62.1 mg/L Species <i>Scenedesmus subspicatus</i> Test duration 72 h		



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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No68155-07-7 Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl) EC50 2.2 mg/L Species Scenedesmus subspicatus Test duration 96 h		
	CAS No141-43-5 2-aminoethanol EC50 2.8 mg/L Species Pseudokirchneriella subcapitata Test duration 72 h		
	CAS No68155-07-7 Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl) NOEC: 0.32 mg/L Species Desmodesmus subspicatus Test duration 72 h	OECD 201	
	CAS No141-43-5 2-aminoethanol NOEC: 1 mg/L Species Selenastrum capricornutum Test duration 72 h		
	CAS No141-43-5 2-aminoethanol EC5: 0.75 mg/L Species Scenedesmus quadricauda Test duration 8 d		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

**Assessment/classification**

Toxic to aquatic life.  
 Harmful to aquatic life with long lasting effects.

**12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation	Degradation rate > 85 %	calculated.	DOC reduction Biodegradable.
Biodegradation	Degradation rate 100 %	Neutralization, pH-measurement	Alkaline properties can be eliminated up to 100% by neutralization.
Biodegradation	Degradation rate 96 % Test duration 19 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No102-71-6 triethanolamine [2,2',2''-nitrilotriethanol]
Biodegradation	Degradation rate 89 % Test duration 28 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts
Biodegradation	Degradation rate 78 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No97489-15-1 Sulfonic acids, C14-17-sec-alkane, sodium salts



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	Value	Method	Source, Remark
Biodegradation	Degradation rate > 70 % Test duration 28 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No34590-94-8 (2-methoxymethylethoxy)-propanol
Biodegradation	Degradation rate 90- 100 % Test duration 28 d	OECD 302B/ ISO 9888/ EEC 92/69/V, C.9	CAS No34590-94-8 (2-methoxymethylethoxy)-propanol
Biodegradation	Degradation rate 84 % Test duration 28 d	OECD 301D/ EEC 92/69/V, C.4-E	CAS No68155-07-7 Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)
Biodegradation	Degradation rate 92.5 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No68155-07-7 Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)
Biodegradation	Degradation rate > 90 % Test duration 21 d	OECD 301A/ ISO 7827/ EEC 92/69/V, C.4-A	CAS No141-43-5 2-aminoethanol
Biodegradation	Degradation rate 90- 100 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	CAS No141-43-5 2-aminoethanol
Biodegradation	Degradation rate > 60 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	CAS No68131-40-8 Alcohols, secondary C11-15, ethoxylated
Biodegradation	Degradation rate > 60 % Test duration 28 d	OECD 301D/ EEC 92/69/V, C.4-E	CAS No160875-66-1 C10-fatty alcohol, ethoxylated

### 12.3 Bioaccumulative potential

#### Assessment/classification

(2-methoxymethylethoxy)-propanol: Accumulation in organisms is not expected (log Pow: 0.004).  
Sulfonic acids, C14-17-sec-alkane, sodium salts: Accumulation in organisms is not expected (log Pow: 0.24).  
Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl): Because of the n-octanol/water partition coefficient accumulation in organisms is possible (log Pow >3).  
2-aminoethanol: Accumulation in organisms is not expected (log Pow: -1.3).  
Alcohols, secondary C11-15, ethoxylated: Significant accumulation in organisms is not expected (log Pow: 2.72).  
triethanolamine: Accumulation in organisms is not expected (BCF: <0,4).  
C10- fatty alcohol, ethoxylated: Accumulation in organisms is not expected.

### 12.4 Mobility in soil

#### Assessment/classification

(2-methoxymethylethoxy)-propanol: Dissolves in water. Highly mobile in soil.  
Sulfonic acids, C14-17-sec-alkane, sodium salts: Moderate adsorption on soil.  
Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl): Koc: 243, moderately mobile in soil.  
2-aminoethanol: Adsorption on soil is not expected.  
Alcohols, secondary C11-15, ethoxylated: not available.  
triethanolamine: Adsorption on soil is not expected (Koc: 10).  
C10- fatty alcohol, ethoxylated: Adsorption on soil is possible.

### 12.5 Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

### 12.6 Endocrine disrupting properties



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Effective dose	Method, Evaluation	Source, Remark
Endocrine disrupting properties		This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

**12.7 Other adverse effects**

Value	Method	Source, Remark
Ozone depletion potential (ODP):		Based on available data, the classification criteria are not met.

**Additional ecotoxicological information**

Value	Method	Source, Remark
Chemical oxygen demand (COD) AOX	1189 mgO <sub>2</sub> /g calculated.	The product does not contain any organically bound halogens according to the recipe.

**Additional information**

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.  
Acute aquatic environmental hazards: Aquatic Acute 2 H401: Toxic to aquatic life.  
Chronic aquatic environmental hazards: Aquatic Chronic 3 H412: Harmful to aquatic life with long lasting effects.  
Do not allow uncontrolled discharge of product into the environment.  
No further relevant informations available.

**\* SECTION 13: Disposal considerations**

**\* 13.1 Waste treatment methods**

**Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
070604 *	other organic solvents, washing liquids and mother liquors
200129 *	detergents containing hazardous substances

  

Waste code packaging	Waste name
150110 *	packaging containing residues of or contaminated by hazardous substances

**\* Appropriate disposal / Product**  
Do not dispose with household waste. Do not discharge into the drains.  
Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**  
Non-contaminated packages may be recycled.  
Handle contaminated packages in the same way as the substance itself.

**\* Other disposal recommendations**  
Application solution / cleaning solution :  
Suitable for neutralization are acetic acid (60%, liquid) or citric acid (solid powder, crystallized) if a stainless steel bath is used.  
Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.



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**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	UN 2491	UN 2491	UN 2491
<b>14.2 UN proper shipping name</b>	ETHANOLAMINE, SOLUTION	ETHANOLAMINE SOLUTION	Ethanolamine solution
<b>14.3 Transport hazard class(es)</b>	8	8	8
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazards</b>	No	No	No
<b>14.6 Special precautions for user</b>	none		
<b>14.7 Maritime transport in bulk according to IMO instruments</b>	not relevant		

**Land transport (ADR/RID)**

UN number or ID number UN 2491  
UN proper shipping name ETHANOLAMINE, SOLUTION  
Transport hazard class(es) 8  
Hazard label(s) 8  
Classification code C7  
Packing group III  
Environmental hazards No  
Limited quantity (LQ) 5 L  
Special provisions -  
Tunnel restriction code E

**Sea transport (IMDG)**

UN number or ID number UN 2491  
UN proper shipping name ETHANOLAMINE SOLUTION  
Transport hazard class(es) 8  
Packing group III  
Environmental hazards No  
Limited quantity (LQ) 5 L  
Marine pollutant No  
EmS F-A, S-B

**Air transport (ICAO-TI / IATA-DGR)**

UN number or ID number UN 2491  
UN proper shipping name Ethanolamine solution  
Transport hazard class(es) 8  
Packing group III  
Environmental hazards No



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## SECTION 15: Regulatory information

### 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture

#### EU legislation

##### Authorisations

not relevant

##### Restrictions on use

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 - not relevant if used as directed.

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 75 - not relevant if used as directed.

##### Restrictions of occupation

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

#### Other regulations (EU)

##### To follow:

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

Directive 2012/18/EU, Annex I: not mentioned.

##### Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC

VOC content, delivery state 23 %

### 15.2 Chemical Safety Assessment

#### National regulations

For this mixture a chemical safety assessment were not carried out.

## \* SECTION 16: Other information

\*

#### Abbreviations and acronyms

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ASTM: American Society for Testing and Materials

ATE: Acute Toxicity Estimate

AVV: Waste Shipment Ordinance (DE)

DGR: Dangerous Goods Regulations (IATA)

DNEL: derived no-effect level

DOC: Dissolved Organic Carbon

EmS: emergency procedures

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization

JArbSchG: Youth Labor Protection Act (DE)

OECD: Organisation for Economic Cooperation and Development

PBT: persistent and bioaccumulative and toxic

RID: Dangerous goods regulations for transport by rail

SCL: Specific concentration limit

TI: Technical Instruction

TRGS: Technical Rules for Hazardous Substances

VOC: Volatile organic compounds

vPvB: very persistent, very bioaccumulative

Met. Corr. 1: Corrosive to metals, Category 1

Acute Tox. 4, H302: Acute Toxicity (oral), Category 4

Acute Tox. 4, H312: Acute toxicity (dermal), Category 4

Skin Corr. 1B: Skin corrosion, Sub-category 1B

Skin Irrit. 2: Skin irritation, Category 2

Eye Dam. 1: Serious eye damage, Category 1

STOT SE 3, H335: Specific target organ toxicity (single exposure), Category 3

Aquatic Chronic 2: Long-term (chronic) aquatic hazard, Category 2

Aquatic Chronic 3: Long-term (chronic) aquatic hazard, Category 3

Acute Tox. 4, H332: Acute Toxicity (inhalation), Category 4



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**Key literature references and sources for data**

Own measurements.  
European Chemicals Agency, <http://echa.europa.eu/>.  
Informations from our suppliers.

**Additional information**

National and local regulations concerning chemicals shall be observed.  
These data are given according to our actual knowledge about this product. This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

**Relevant H- and EUH-phrases (Number and full text)**

H290 May be corrosive to metals.  
H302 Harmful if swallowed.  
H312 Harmful in contact with skin.  
H314 Causes severe skin burns and eye damage.  
H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H332 Harmful if inhaled.  
H335 May cause respiratory irritation.  
H411 Toxic to aquatic life with long lasting effects.  
H412 Harmful to aquatic life with long lasting effects.

**Indication of changes**

\* Data changed compared with the previous version