

**Safety data sheet**  
according to 1907/2006/EC, Article 31

Printing date 01.06.2017

Version: 6

Revision: 12.04.2016

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

#### 1.1 Product identifier

**Trade name:** SONAX SX MULTIWAX

**Article number:** 06635000, 06636000.03, 06637050.04, 06639410.01

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

##### Sector of Use

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

**Application of the substance / the mixture** Car care product

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

##### Manufacturer/Supplier:

SONAX GmbH

Münchener Straße 75

D-86633 Neuburg (Donau)

Tel.: ++49 (0)8431/53-0

##### Further information obtainable from:

Product safety

E-mail: [erp@sonax.de](mailto:erp@sonax.de)

Phone: + +49 (0) 8431 53 217

#### 1.4 Emergency telephone number: Emergency Phone Munich Tel.: +49 (0)89 19240

### SECTION 2: Hazards identification

#### 2.1 Classification of the substance or mixture

##### Classification according to Regulation (EC) No 1272/2008

Skin Irrit. 2            H315 Causes skin irritation.

Eye Dam. 1            H318 Causes serious eye damage.

Aquatic Chronic 3    H412 Harmful to aquatic life with long lasting effects.

#### 2.2 Label elements

##### Labelling according to Regulation (EC) No 1272/2008

The product is classified and labelled according to the CLP regulation.

##### Hazard pictograms



GHS05

##### Signal word Danger

##### Hazard-determining components of labelling:

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)

##### Hazard statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

##### Precautionary statements

P280                    Wear protective gloves/eye protection.

P302+P352            IF ON SKIN: Wash with plenty of water.

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/doctor.

P332+P313            If skin irritation occurs: Get medical advice/attention.

P501                    Dispose of contents/container in accordance with local/regional/national/international regulations.

##### Additional information:

EUH208 Contains dipentene. May produce an allergic reaction.

#### 2.3 Other hazards

##### Results of PBT and vPvB assessment

**PBT:** Not applicable.

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vPvB: Not applicable.

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**SECTION 3: Composition/information on ingredients****3.2 Mixtures****Description:** Tensides, care additives, alcohol in aqueous solution.**Dangerous components:**

CAS: 67-63-0 EINECS: 200-661-7 Reg.nr.: 01-2119457558-25-xxxx	propan-2-ol ⚠ Flam. Liq. 2, H225; ⚠ Eye Irrit. 2, H319; STOT SE 3, H336	10 - <15%
EC No 939-685-4 Reg.nr.: 01-2119983493-26-xxxx	1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts) ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315; Aquatic Chronic 3, H412	5 - <10%
CAS: 9004-78-8 NLP: 500-013-6	Phenol polyethoxilate ⚠ Acute Tox. 4, H302	5 - <10%
CAS: 5131-66-8 EINECS: 225-878-4 Reg.nr.: 01-2119475527-28-xxxx	3-butoxypropan-2-ol ⚠ Skin Irrit. 2, H315; Eye Irrit. 2, H319	5 - <10%
CAS: 308062-28-4 Reg.nr.: 01-2119490061-47-xxxx	Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315	1 - <3%
CAS: 25307-17-9 EINECS: 246-807-3 Reg.nr.: 01-2119510876-35-xxxx	2,2'-(Octadec-9-enylimino)bisethanol ⚠ Skin Corr. 1B, H314; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Acute Tox. 4, H302	< 1.00%
CAS: 138-86-3 EINECS: 205-341-0	dipentene ⚠ Flam. Liq. 3, H226; ⚠ Asp. Tox. 1, H304; ⚠ Aquatic Acute 1, H400; Aquatic Chronic 1, H410; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	< 0.25%

**Additional information:**

Any entry in the EC-column that begins with the number "9" is a Provisional List Number provided by ECHA pending publication of the official EC Inventory Number for the substance. See Section 15 for additional CAS number information for the substance.

For the wording of the listed hazard phrases refer to section 16.

**SECTION 4: First aid measures****4.1 Description of first aid measures****General information:** Remove soiled clothing**After inhalation:** Supply fresh air; consult doctor in case of complaints.**After skin contact:**

Wash the areas of skin affected with water and a mild detergent.

If skin irritation continues, consult a doctor.

**After eye contact:** Rinse opened eye for several minutes under running water. Then consult a doctor.**After swallowing:**

Rinse out mouth and then drink plenty of water.

Do not induce vomiting; call for medical help immediately.

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

Eye irritation / Eye damage

Skin irritation

Allergic reactions

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

Treatment in accordance with the doctor's assessment of the patient's condition. Symptomatic treatment.

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**SECTION 5: Firefighting measures****5.1 Extinguishing media****Suitable extinguishing agents:** Use fire extinguishing methods suitable to surrounding conditions.**5.2 Special hazards arising from the substance or mixture** No further relevant information available.**5.3 Advice for firefighters****Protective equipment:** The normal measures for firefighting are to be taken.**Additional information**

Collect contaminated fire fighting water separately. It must not enter the sewage system.

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

Ensure adequate ventilation

Wear protective equipment. Keep unprotected persons away.

**6.2 Environmental precautions:**

Do not allow to penetrate the ground/soil.

Do not allow to enter sewers/ surface or ground water.

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

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Dispose contaminated material as waste according to item 13.

**6.4 Reference to other sections**

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

**SECTION 7: Handling and storage****7.1 Precautions for safe handling** No special precautions are necessary if used correctly.**Information about fire - and explosion protection:** No special measures required.**7.2 Conditions for safe storage, including any incompatibilities****Storage:****Requirements to be met by storerooms and receptacles:** Prevent any seepage into the ground.**Information about storage in one common storage facility:** Store away from foodstuffs.**Further information about storage conditions:**

Protect from frost.

Recommended storage temperature: 20 °C.

**7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****8.1 Control parameters****Ingredients with limit values that require monitoring at the workplace:****CAS: 67-63-0 propan-2-ol**

WEL (Great Britain)	Short-term value: 1250 mg/m <sup>3</sup> , 500 ppm
	Long-term value: 999 mg/m <sup>3</sup> , 400 ppm

**Regulatory information** WEL (Great Britain): EH40/2011**DNELs****CAS: 67-63-0 propan-2-ol**

Oral	DNEL	26 mg/kg (consumer) (chronic effects (1d))
Dermal	DNEL	319 mg/kg (consumer) (chronic effects (1d))
		888 mg/kg (worker) (chronic effects (1d))
Inhalative	DNEL	89 mg/m <sup>3</sup> (consumer) (chronic effects)
		500 mg/m <sup>3</sup> (worker) (chronic effects)

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**1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)**

Oral	DNEL	6.25 mg/kg bw/day (consumer) (longterm systematic effects)
Dermal	DNEL	31.25 mg/kg bw/day (consumer) (longterm systematic effects)
		52.08 mg/kg bw/day (worker) (longterm systematic effects)
Inhalative	DNEL	10.85 mg/m <sup>3</sup> (consumer) (longterm systematic effects)
		36.35 mg/m <sup>3</sup> (worker) (longterm systematic effects)

**CAS: 5131-66-8 3-butoxypropan-2-ol**

Oral	DNEL	8.75 mg/kg bw/day (human)
Dermal	DNEL	16 mg/kg bw/day (human)
		44 mg/kg bw/day (worker)
Inhalative	DNEL	33.8 mg/m <sup>3</sup> (human)
		270.5 mg/m <sup>3</sup> (worker)

**CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**

Oral	DNEL	0.44 mg/kg bw/day (consumer) (longterm / systemic effects)
Dermal	DNEL	0.27 % in mix./weight (worker) (longterm / local effects)
		5.5 mg/kg bw/day (consumer) (longterm / systemic effects)
		11 mg/kg bw/day (worker) (longtime / systemic effects)
Inhalative	DNEL	3.8 mg/m <sup>3</sup> (consumer) (longterm / systemic effects)
		15.5 mg/m <sup>3</sup> (worker) (longterm / systemic effects)

**CAS: 25307-17-9 2,2'-(Octadec-9-enylimino)bisethanol**

Oral	DNEL	0.179 mg/kg bw/day (consumer) (long-term exposure - systemic effects)
Dermal	DNEL	0.179 mg/kg bw/day (consumer) (long-term exposure - systemic effects)
		0.25 mg/kg bw/day (worker) (long-term exposure - systemic effects)
Inhalative	DNEL	0.621 mg/m <sup>3</sup> (consumer) (long-term exposure - systemic effects)
		1.76 mg/m <sup>3</sup> (worker) (long-term exposure - systemic effects)

**PNECs**
**CAS: 67-63-0 propan-2-ol**

PNEC	140.9 mg/l (sporadic release)
	2251 mg/l (STP)
	140.9 mg/l (water (fresh water))
	140.9 mg/l (water (sea water))
PNEC	28 mg/kg (gro)
	552 mg/kg (sediment)

**1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)**

PNEC	1 mg/l (sewage plant)
	0.054 mg/l (water (fresh water))
	0.005 mg/l (water (sea water))
PNEC	5.54 mg/kg (sediment (fresh water))
	0.554 mg/kg (sediment (sea water))
	1.08 mg/kg (soil)

**CAS: 5131-66-8 3-butoxypropan-2-ol**

PNEC	10 mg/l (PF)
	10 mg/l (STP)
	0.525 mg/l (water (fresh water))
	0.0525 mg/l (water (sea water))
PNEC	2.36 mg/kg (sediment (fresh water))
	0.236 mg/kg (sediment (sea water))
	0.16 mg/kg (soil)

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**CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**

PNEC	0.0335 mg/l (water (intermittent release))
	0.0335 mg/l (water (fresh water))
	0.00335 mg/l (water (sea water))
PNEC	24 mg/kg (STP)
	5.24 mg/kg (sediment (fresh water))
	0.524 mg/kg (sediment (sea water))
	1.02 mg/kg (soil)

**CAS: 25307-17-9 2,2'-(Octadec-9-enylimino)bisethanol**

PNEC	1.5 mg/l (sewage plant)
	0.000214 mg/l (water (fresh water))
	0.000021 mg/l (water (sea water))
PNEC	1.692 mg/kg (sediment (fresh water))
	0.1692 mg/kg (sediment (sea water))
	5 mg/kg (soil)

**Additional information:** The lists valid during the making were used as basis.

### 8.2 Exposure controls

#### Suitable technical control devices

Ensure good ventilation. This can be achieved by localised extraction or general ventilation. If this is not sufficient to keep the concentration below the occupational exposure limit, suitable breathing protection is to be worn.

#### Personal protective equipment:

##### General protective and hygienic measures:

The usual precautionary measures are to be adhered to when handling chemicals.

Keep away from foodstuffs, beverages and feed.

Wash hands before breaks and at the end of work.

##### Respiratory protection:

Not required in normal cases

Ensure good ventilation/exhaustion at the workplace.

##### Protection of hands:

Protective gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation.

##### Material of gloves

Nitrile rubber, NBR

Recommended thickness of the material:  $\geq 0.4$  mm

**Penetration time of glove material** Value for the permeation: Level 6 ( $\geq 480$  min)

##### Eye protection:

Safety glasses

[EN 166]

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

#### General Information

##### Appearance:

<b>Form:</b>	Fluid
<b>Colour:</b>	Red
<b>Odour:</b>	Characteristic
<b>Odour threshold:</b>	Not determined.

**pH-value at 20 °C:** 5.0 - 5.5

##### Change in condition

**Melting point/freezing point:** Undetermined.  
**Initial boiling point and boiling range:** 82 - 171 °C

**Flash point:** 39 °C (DIN 51755)

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<b>Flammability (solid, gas):</b>	Not applicable.
<b>Ignition temperature:</b>	
<b>Decomposition temperature:</b>	Not determined.
<b>Auto-ignition temperature:</b>	Product is not selfigniting.
<b>Explosive properties:</b>	Product does not present an explosion hazard.
<b>Explosion limits:</b>	
<b>Lower:</b>	Explosion limits components: 2 Vol% (propan-2-ol data)
<b>Upper:</b>	Explosion limits components: 12 Vol% (propan-2-ol data)
<b>Vapour pressure:</b>	Not determined.
<b>Density at 20 °C:</b>	0.97 - 0.98 g/cm <sup>3</sup>
<b>Relative density</b>	Not determined.
<b>Vapour density</b>	Not determined.
<b>Evaporation rate</b>	Not determined.
<b>Solubility in / Miscibility with water:</b>	Partly miscible.
<b>Partition coefficient: n-octanol/water:</b>	Not determined.
<b>Viscosity:</b>	
<b>Flow time at 20 °C</b>	10 - 15 s (DIN EN ISO 2431/4mm)
<b>Dynamic:</b>	Not determined.
<b>Kinematic:</b>	Not determined.
<b>9.2 Other information</b>	Sustained combustibility test ISO 9038/UN manual of tests and criteria (32.5.2): no self-sustained combustion

### SECTION 10: Stability and reactivity

**10.1 Reactivity** No dangerous reactions known.

**10.2 Chemical stability** Stable under normal conditions.

**10.3 Possibility of hazardous reactions** No dangerous reactions known.

**10.4 Conditions to avoid** See Section 7 for information on safe handling.

**10.5 Incompatible materials:** strong oxidizing agents

**10.6 Hazardous decomposition products:** No dangerous decomposition products known.

### SECTION 11: Toxicological information

**11.1 Information on toxicological effects** There are no toxicological findings on this mixture.

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

#### LD/LC50 values relevant for classification:

##### CAS: 67-63-0 propan-2-ol

Oral	LD50	5840 mg/kg (rat)
Dermal	LD50	13900 mg/kg (rabbit)
Inhalative	LC50 / 6 h	>25 mg/l (rat) (OECD 403)

##### 1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)

Oral	LD50	>2000 mg/kg (mouse) (OECD 423)
Dermal	LD50	>2000 mg/kg (rabbit) (OECD TG 402)

##### CAS: 9004-78-8 Phenol polyethoxilate

Oral	LD50	500-2000 mg/kg (rat) (OECD 423)
Dermal	LD50	2140 mg/kg (rabbit)

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**CAS: 5131-66-8 3-butoxypropan-2-ol**

Oral	LD50	>2000 mg/kg (rat) (OECD 423)
Dermal	LD50	>2000 mg/kg (rat) (OECD 402)

**CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl-, N-oxides**

Oral	LD50	1064 mg/kg (rat)
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**CAS: 25307-17-9 2,2'-(Octadec-9-enylimino)bisethanol**

Oral	LD50	> 300 - 2000 mg/kg (rat) (OECD 401)
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**Primary irritant effect:****Skin corrosion/irritation**

Causes skin irritation.

**Serious eye damage/irritation**

Causes serious eye damage.

**Respiratory or skin sensitisation**

On the basis of the available data, the classification criteria are not complied with (Conventional Method).  
Contains dipentene. May produce an allergic reaction.

**CMR effects (carcinogenicity, mutagenicity and toxicity for reproduction)**

None of the ingredients are known to have effects which are carcinogenic, mutagenic or harmful to reproduction.

**Germ cell mutagenicity** Based on available data, the classification criteria are not met.

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

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

**STOT-single exposure** Based on available data, the classification criteria are not met.

**STOT-repeated exposure****1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)**

Dermal	NOAEL 28d	500 mg/kg (rat) (OECD 407)
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Based on available data, the classification criteria are not met.

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

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

Product is considered to be harmful to aquatic organisms. May have long-term harmful effects in aquatic environments.

**Aquatic toxicity:****CAS: 67-63-0 propan-2-ol**

LC50 / 96h	9640 mg/l (Pimephales promelas)
LC50 / 24h	9714 mg/l (daphnia)
EC50	>100 mg/l (bacteria)
EC50 / 72h	>100 mg/l (algae)

**1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)**

LC50 / 96h	>10 mg/l (Cyprinus carpio) (OECD 203)
EC20 / 6d	10 mg/l (activated sludge)
EC50 / 48h	>8.6 mg/l (Daphnia magna) (OECD 202)
EC50 / 72h	1.2 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC50 / 6 d	100 mg/l (activated sludge)
NOEC / 21d	1 mg/l (Daphnia magna) (EPA OTS 797.1330)
NOEC / 72 h	0.39 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
NOEC / 35 d	0.686 mg/l (Pimephales promelas) (US-EPA)

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**CAS: 9004-78-8 Phenol polyethoxilate**

LC50 / 96h	>100 mg/l (fish) (OECD 203)
EC50	>128 mg/kg (Daphnia magna) (OECD 202)

**CAS: 5131-66-8 3-butoxypropan-2-ol**

LC50 / 96h	>560 -1000 mg/l (Gp)
	>100 mg/l (Pimephales promelas)
EC20	>1000 mg/l (activated sludge) (DIN EN ISO 9192-OECD 20-88/302/EWG, T.C, aerob))
EC50/3h	>1000 mg/l (bacteria)
EC50 / 48h	>100 mg/l (Daphnia magna) (OECD 202 (Teil I))
EC50 / 96 h	>1000 mg/l (Grünalge Pseudokirchneriella subcapitata)
NOEC 96h	560 mg/l (Grünalge Pseudokirchneriella subcapitata)

**CAS: 308062-28-4 Amines, C12-14 (even numbered)-alkyldimethyl, N-oxides**

LC50 / 96h	2.67 mg/l (fish)
EC50	3.1 mg/l (waterflea /Wasserfloh)
IC 50	0.143 mg/l (seaweed (Seegrass))
NOEC/NOEL	0.067 mg/l (seaweed (Seegrass))

**CAS: 25307-17-9 2,2'-(Octadec-9-enylimino)bisethanol**

LC50 / 96h	> 0.1 - 1 mg/l (fish)
EC50 / 48h	> 0.01 -0.1 mg/l (daphnia)
EC50 / 72h	> 0.01 - 0.1 mg/l (Pseudokirchneriella subcapitata) (OECD 201)
EC10 / 21 d	> 0.001 - 0.01 mg/l (Daphnia magna) (OECD 211)
EC10 / 72 h	> 0.01 - 0.1 mg/l (Pseudokirchneriella subcapitata) (OECD 201)

**12.2 Persistence and degradability****CAS: 67-63-0 propan-2-ol**

Biodegradation	53 %
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**1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts)**

Biodegradation	>60 % (OECD TG 301 F)
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**CAS: 9004-78-8 Phenol polyethoxilate**

Biodegradation	40 - 50 % (OECD 311)
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**CAS: 5131-66-8 3-butoxypropan-2-ol**

Biodegradation	80 - 90 % (ISO 14593)
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**CAS: 25307-17-9 2,2'-(Octadec-9-enylimino)bisethanol**

CSB	3880 mg/g
Biodegradation	> 60 % (OECD 301 D)

**12.3 Bioaccumulative potential** No further relevant information available.**12.4 Mobility in soil** No further relevant information available.**Additional ecological information:****General notes:**

The product may not be released into the environment without control.

The product does not contain organically bounded halogens (AOX-free).

The product does not contain organic complexing agents.

**12.5 Results of PBT and vPvB assessment****PBT:** Not applicable.**vPvB:** Not applicable.**12.6 Other adverse effects** No further relevant information available.**SECTION 13: Disposal considerations****13.1 Waste treatment methods****Recommendation** Waste must be disposed of while observing the local, official regulations.

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### European waste catalogue

07 06 04\* other organic solvents, washing liquids and mother liquors

### Uncleaned packaging:

15 01 10\*: packaging containing residues of or contaminated by dangerous substances

### Recommendation:

Packaging may be reused or recycled after cleaning.

15 01 02: plastic packaging

Recommended cleansing agents: Water

## SECTION 14: Transport information

### 14.1 UN-Number

ADR, IMDG, IATA Void

### 14.2 UN proper shipping name

ADR, IMDG, IATA Void

### 14.3 Transport hazard class(es)

ADR, ADN, IMDG, IATA

Class Void

### 14.4 Packing group

ADR, IMDG, IATA Void

### 14.5 Environmental hazards:

Marine pollutant: No

14.6 Special precautions for user Not applicable.

Transport/Additional information: Sustained combustibility test ISO 9038/UN manual of tests and criteria (32.5.2):  
no self-sustained combustion

UN "Model Regulation": Void

## SECTION 15: Regulatory information

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

The following substance(s) in this product is (are) identified by CAS number either in countries not subject to the REACH regulation.

1-Propanaminium, 2-hydroxy-N-(2-hydroxypropyl)-N,N-dimethyl-, esters with fatty acids, C18 unsatd., Me sulfates (salts): CAS 95009-13-5

### National regulations:

### Information about limitation of use:

Employment restrictions concerning pregnant and lactating women must be observed.

Employment restrictions concerning juveniles must be observed.

15.2 Chemical safety assessment: A Chemical Safety Assessment has not been carried out.

## SECTION 16: Other information

This information is based on our present knowledge. However, this shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

### Relevant phrases

H225 Highly flammable liquid and vapour.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H304 May be fatal if swallowed and enters airways.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H317 May cause an allergic skin reaction.

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H318 Causes serious eye damage.  
 H319 Causes serious eye irritation.  
 H336 May cause drowsiness or dizziness.  
 H400 Very toxic to aquatic life.  
 H410 Very toxic to aquatic life with long lasting effects.  
 H411 Toxic to aquatic life with long lasting effects.  
 H412 Harmful to aquatic life with long lasting effects.

**Abbreviations and acronyms:**

RID: Règlement international concernant le transport des marchandises dangereuses par chemin de fer (Regulations Concerning the International Transport of Dangerous Goods by Rail)  
 NOEL = No Observed Effect Level  
 NOEC = No Observed Effect Concentration  
 LC = Lethal Concentration  
 EC50 = half maximal effective concentration  
 log POW = Octanol / water partition coefficient  
 GHS: Globally Harmonized System of Classification and Labelling of Chemicals  
 ATE: acute toxicity estimate  
 ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road)  
 IMDG: International Maritime Code for Dangerous Goods  
 IATA: International Air Transport Association  
 EINECS: European Inventory of Existing Commercial Chemical Substances  
 ELINCS: European List of Notified Chemical Substances  
 CAS: Chemical Abstracts Service (division of the American Chemical Society)  
 DNEL: Derived No-Effect Level (REACH)  
 PNEC: Predicted No-Effect Concentration (REACH)  
 LC50: Lethal concentration, 50 percent  
 LD50: Lethal dose, 50 percent  
 IOELV = indicative occupational exposure limit values  
 Flam. Liq. 2: Flammable liquids – Category 2  
 Flam. Liq. 3: Flammable liquids – Category 3  
 Acute Tox. 4: Acute toxicity – Category 4  
 Skin Corr. 1B: Skin corrosion/irritation – Category 1B  
 Skin Irrit. 2: Skin corrosion/irritation – Category 2  
 Eye Dam. 1: Serious eye damage/eye irritation – Category 1  
 Eye Irrit. 2: Serious eye damage/eye irritation – Category 2  
 Skin Sens. 1: Skin sensitisation – Category 1  
 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3  
 Asp. Tox. 1: Aspiration hazard – Category 1  
 Aquatic Acute 1: Hazardous to the aquatic environment - acute aquatic hazard – Category 1  
 Aquatic Chronic 1: Hazardous to the aquatic environment - long-term aquatic hazard – Category 1  
 Aquatic Chronic 2: Hazardous to the aquatic environment - long-term aquatic hazard – Category 2  
 Aquatic Chronic 3: Hazardous to the aquatic environment - long-term aquatic hazard – Category 3  
 \* **Data compared to the previous version altered.**

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