

Safety data sheet
according to 2020/878/EC

Printing date 20.12.2023

Version number 5 (replaces version 1)

Revision: 20.12.2023

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

- 1.1 Product identifier

- Trade name: **SEMPER**

- UFI: DSA6-00M8-500X-T5JN

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

- Life cycle stages

C Consumer use

PW Widespread use by professional workers

- Sector of Use

SU21 Consumer uses: Private households / general public / consumers

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

- Product category PC35 Washing and cleaning products (including solvent based products)

- Recommended use Car shampoo

- Uses advised against

The mixture is not recommended for industrial, professional and consumer applications not specified as relevant identified uses

- 1.3 Details of the supplier of the safety data sheet

- Manufacturer/Supplier:

MA-FRA S.p.A. a Socio Unico

Via Aquileia, 44/46

20021 Baranzate (MI) ITALIA

Tel. +39 023569981

www.mafra.com

mafra@mafra.it

- Informing department:

info@mafra.it

E-mail: lab@mafra.it

- 1.4 Emergency telephone number: In case of accident call the emergency number 112

SECTION 2: Hazards identification

- 2.1 Classification of the substance or mixture

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



corrosion

Skin Corr. 1B H314 Causes severe skin burns and eye damage.

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 GB CLP regulation.

- Hazard pictograms



GHS05

- Signal word *Danger*

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- Hazard-determining components of labelling:

Dodecylbenzene sulphonic acid
Alkyl polyglucosyde C8-C10

- Hazard statements

H314 Causes severe skin burns and eye damage.
H412 Harmful to aquatic life with long lasting effects.

- Precautionary statements

P102 Keep out of reach of children.
P273 Avoid release to the environment.
P280 Wear protective gloves / eye protection / face protection.
P303+P361+P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water [or shower].
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container in accordance with local/regional/national/international regulation

- Additional information:

EUH208 Contains Amberonone, 1,2-benzisothiazolin-3-one. May produce an allergic reaction.

- 2.3 Other hazards**- Results of PBT and vPvB assessment**

- **PBT:** Not applicable.

- **vPvB:** Not applicable.

SECTION 3: Composition/information on ingredients

- 3.2 Mixtures

- **Description:** Mixture of substances

- Dangerous components:

CAS: 85536-14-7 EINECS: 287-494-3 Reg.nr.: 01-2119490234-40-0023	Dodecylbenzene sulphonic acid ⚠ Skin Corr. 1B, H314; Eye Dam. 1, H318; ⚠ Acute Tox. 4, H302; Aquatic Chronic 3, H412	5-<10%
CAS: 8051-30-7 EINECS: 232-483-0 Reg.nr.: 01-2119490100-53	Coco Diethanolamide ⚠ Eye Dam. 1, H318; ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315	1-<3%
CAS: 68515-73-1 NLP: 500-220-1 Reg.nr.: 01-2119488530-36	Alkyl polyglucosyde C8-C10 ⚠ Eye Dam. 1, H318	1-<3%
CAS: 68439-57-6 EC number: 931-534-0 Reg.nr.: 01-2119513401-57	Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315 Specific concentration limits: Skin Irrit. 2; H315: C ≥ 5 % Eye Dam. 1; H318: C ≥ 38 % Eye Irrit. 2; H319: 5 % ≤ C < 38 %	1-<3%
CAS: 9004-82-4	Sodium Laureth Sulphate ⚠ Eye Dam. 1, H318; ⚠ Skin Irrit. 2, H315 Specific concentration limits: Eye Dam. 1; H318: C ≥ 10 % Eye Irrit. 2; H319: 5 % ≤ C < 10 %	1-<3%
CAS: 1310-58-3 EINECS: 215-181-3 Reg.nr.: 01-2119487136-33	potassium hydroxide ⚠ Met. Corr.1, H290; Skin Corr. 1A, H314; ⚠ Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0.5 % ≤ C < 2 % Eye Irrit. 2; H319: 0.5 % ≤ C < 2 %	1-<3%
CAS: 111-76-2 EINECS: 203-905-0 Reg.nr.: 01-2119475108-36	2-butoxyethanol ⚠ Acute Tox. 3, H331; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319 ATE: LD50 oral: 1,200 mg/Kg	<1%

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CAS: 54464-57-2 EINECS: 259-174-3	Amberonne ⚠ Aquatic Chronic 2, H411; ⚠ Skin Irrit. 2, H315; Skin Sens. 1, H317	<1%
CAS: 3811-73-2 EINECS: 223-296-5	Sodium pyrithione ⚠ Acute Tox. 3, H311; Acute Tox. 3, H331; ⚠ STOT RE 1, H372; ⚠ Aquatic Acute 1, H400 (M=100); Aquatic Chronic 2, H411; ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Eye Irrit. 2, H319; Skin Sens. 1, H317	<0.05%
CAS: 2634-33-5 EINECS: 220-120-9	1,2-benzisothiazolin-3-one ⚠ Eye Dam. 1, H318; ⚠ Aquatic Acute 1, H400 (M=1); ⚠ Acute Tox. 4, H302; Skin Irrit. 2, H315; Skin Sens. 1, H317 Specific concentration limit: Skin Sens. 1; H317: C ≥ 0.05 %	<0.05%

- Regulation (EC) No 648/2004

anionic surfactants	≥15 - <30%
non-ionic surfactants	≥5 - <15%
EDTA and salts thereof, perfumes (Alpha Hexyl Cinnamaldehyde, LINALOOL)	<5%
preservation agents (Sodium pyrithione, benzisothiazolinone)	

- Additional information For the wording of the listed hazard phrases refer to section 16.**SECTION 4: First aid measures****- 4.2 Most important symptoms and effects, both acute and delayed**

Sickness

No further relevant information available.

- General information

Instantly remove any clothing soiled by the product.

No special measures required.

- After inhalation

In case of unconsciousness bring patient into stable side position for transport.

Supply fresh air; consult doctor in case of symptoms.

- After skin contact

Instantly wash with water and soap and rinse thoroughly.

If skin irritation continues, consult a doctor.

- After eye contact

Rinse opened eye for several minutes under running water. Then consult doctor.

Use eye protection.

- After swallowing Rinse out mouth and then drink plenty of water.**- 4.3 Indication of any immediate medical attention and special treatment needed**

If swallowed, gastric irrigation

Medical supervision for at least 48 hours

SECTION 5: Firefighting measures**- 5.1 Extinguishing media****- Suitable extinguishing agents**CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

Use fire fighting measures that suit the environment.

- 5.2 Special hazards arising from the substance or mixture

Can be released in case of fire

Carbon monoxide (CO)

- 5.3 Advice for firefighters**- Protective equipment:**

Do not inhale explosion gases or combustion gases.

Protection means for respiratory tract

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- Additional information

Dispose of fire debris and contaminated fire fighting water in accordance with official regulations.

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

Particular danger of slipping on leaked/spilled product.

Protective gloves. (EN 374)

- For non-emergency personnel

Ensure adequate ventilation

Keep away from ignition sources

Wear protective clothing.

- For emergency responders

PVC gloves

Recommended thickness of the material: ≥ 0.1 mm

Nitrile rubber, NBR

- 6.2 Environmental precautions:

Inform respective authorities in case product reaches water or sewage system.

Dilute with much water.

Do not allow to enter drainage system, 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 of the material collected according to regulations.

- 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 information on disposal.

SECTION 7: Handling and storage**- 7.1 Precautions for safe handling**

Ensure good ventilation/exhaustion at the workplace.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Do not eat, drink or smoke while working.

- Information about protection against explosions and fires: Protect from heat.**- 7.2 Conditions for safe storage, including any incompatibilities****- Storage****- Requirements to be met by storerooms and containers:** Store only in the original container.**- Information about storage in one common storage facility:** Not required.**- Further information about storage conditions:** None.**- Class according to regulation on inflammable liquids:** Void**- 7.3 Specific end use(s)** No further relevant information available.**SECTION 8: Exposure controls/personal protection****- 8.1 Control parameters****- Components with limit values that require monitoring at the workplace:****1310-58-3 potassium hydroxide**WEL Short-term value: 2 mg/m³**111-76-2 2-butoxyethanol**WEL Short-term value: 246 mg/m³, 50 ppmLong-term value: 123 mg/m³, 25 ppm

Sk, BMGV

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- DNELs		
85536-14-7 Dodecylbenzene sulphonic acid		
Oral	Systemic Long-term Effects	0.425 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	85 mg/Kg bw/day (Industrial Workers)
		42.5 mg/Kg bw/day (Consumers)
Inhalative	Local long-term effects	12 mg/m ³ (Industrial Workers)
		3 mg/m ³ (Consumers)
	Systemic long-term effects	6 mg/m ³ (Industrial Workers)
		1.5 mg/m ³ (Consumers)
68515-73-1 Alkyl polyglucosyde C8-C10		
Oral	Systemic Long-term Effects	35.7 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	595,000 mg/Kg bw/day (Industrial Workers)
		357,000 mg/Kg bw/day (Consumers)
Inhalative	Systemic long-term effects	420 mg/m ³ (Industrial Workers)
		124 mg/m ³ (Consumers)
68439-57-6 Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts		
Oral	Systemic Long-term Effects	12.95 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	2,158.33 mg/Kg bw/day (Industrial Workers)
		1,295 mg/Kg bw/day (Consumers)
Inhalative	Systemic long-term effects	152.22 mg/m ³ (Industrial Workers)
		45.04 mg/m ³ (Consumers)
9004-82-4 Sodium Laureth Sulphate		
Oral	Systemic Long-term Effects	15 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	2,750 mg/Kg bw/day (Industrial Workers)
		1,650 mg/Kg bw/day (Consumers)
Inhalative	Systemic long-term effects	175 mg/m ³ (Industrial Workers)
		52 mg/m ³ (Consumers)
1310-58-3 potassium hydroxide		
Inhalative	Local long-term effects	1 mg/m ³ (Industrial Workers)
		1 mg/m ³ (Consumers)
	Systemic long-term effects	1 mg/m ³ (Industrial Workers)
		1 mg/m ³ (Consumers)
111-76-2 2-butoxyethanol		
Oral	Systemic Long-term Effects	6.3 mg/Kg bw/day (Consumers)
	Systemic short-term effects	26.7 mg/m ³ (Consumers)
Dermal	Systemic long-term effects	125 mg/Kg bw/day (Industrial Workers)
		75 mg/Kg bw/day (Consumers)
	Systemic Short-term Effects	89 mg/Kg bw/day (Industrial Workers)
Inhalative	Local long-term effects	89 mg/Kg bw/day (Consumers)
		67.5 mg/m ³ (Industrial Workers)
	40.5 mg/m ³ (Consumers)	
	Local short-term effects	246 mg/m ³ (Industrial Workers)
		147 mg/m ³ (Consumers)
	Systemic long-term effects	98 mg/m ³ (Industrial Workers)
		59 mg/m ³ (Consumers)
	Systemic Short-term Effects	1,091 mg/m ³ (Industrial Workers)

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		426 mg/m ³ (Consumers)
64-02-8 tetrasodium ethylenediaminetetraacetate		
Oral	Systemic Long-term Effects	25 mg/Kg bw/day (Consumers)
Inhalative	Local long-term effects	1.5 mg/m ³ (Industrial Workers)
		0.6 mg/m ³ (Consumers)
	Local short-term effects	3 mg/m ³ (Industrial Workers)
		1.2 mg/m ³ (Consumers)
	Systemic long-term effects	1.5 mg/m ³ (Industrial Workers)
		0.6 mg/m ³ (Consumers)
	Systemic Short-term Effects	2.5 mg/m ³ (Industrial Workers)
		1.5 mg/m ³ (Consumers)
54464-57-2 Amberonne		
Oral	Systemic Long-term Effects	0.25 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	1.73 mg/Kg bw/day (Industrial Workers)
	Systemic Short-term Effects	1.73 mg/Kg bw/day (Industrial Workers)
Inhalative	Systemic long-term effects	1.76 mg/m ³ (Industrial Workers)
		0.43 mg/m ³ (Consumers)
	Systemic Short-term Effects	1.76 mg/m ³ (Industrial Workers)

- PNECs**85536-14-7 Dodecylbenzene sulphonic acid**

PNEC STP	3.43 mg/L (STP)
Soil	35 mg/Kg (Soil)
Soft Water	0.268 mg/L (Water)
Sea water	0.027 mg/L (Water)
Sediment (soft water)	8.1 mg/Kg (Soil)
Sediment (sea water)	6.8 mg/Kg (Soil)

8051-30-7 Coco Diethanolamide

PNEC STP	830 mg/L (STP)
Soil	0.0189 mg/Kg (Soil)
Soft Water	0.007 mg/L (Water)
Sea water	0.0007 mg/L (Water)

68515-73-1 Alkyl polyglucosyde C8-C10

PNEC STP	560 mg/L (STP)
Soil	0.654 mg/Kg (Soil)
Soft Water	0.176 mg/L (Water)
Sea water	0.0176 mg/L (Water)
Sediment (soft water)	1.516 mg/Kg (Soil)
Sediment (sea water)	0.152 mg/Kg (Soil)

68439-57-6 Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

PNEC STP	4 mg/L (STP)
Soil	1.21 mg/Kg (Soil)
Soft Water	0.024 mg/L (Water)
Sea water	0.0024 mg/L (Water)
Sediment (soft water)	0.767 mg/Kg (Soil)
Sediment (sea water)	0.0767 mg/Kg (Soil)

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9004-82-4 Sodium Laureth Sulphate

PNEC STP	10,000 mg/L (STP)
Soil	7.5 mg/Kg (Soil)
Soft Water	0.24 mg/L (Water)
Sea water	0.024 mg/L (Water)
Sediment (soft water)	0.917 mg/Kg (Soil)
Sediment (sea water)	0.092 mg/Kg (Soil)

111-76-2 2-butoxyethanol

PNEC STP	463 mg/L (STP)
Soil	2.33 mg/Kg (Soil)
Soft Water	8.8 mg/L (Water)
Sea water	0.88 mg/L (Water)
Sediment (soft water)	34.6 mg/Kg (Soil)
Sediment (sea water)	3.46 mg/Kg (Soil)
Occasional Emission	26.4 mg/L (Water)

64-02-8 tetrasodium ethylenediaminetetraacetate

PNEC STP	43 mg/L (STP)
Soil	0.72 mg/Kg (Soil)
Soft Water	2.2 mg/L (Water)
Sea water	0.22 mg/L (Water)
Occasional Emission	1.2 mg/L (Water)

54464-57-2 Amberonne

Soil	0.705 mg/Kg (Soil)
Soft Water	0.0028 mg/L (Water)
Sea water	0.00028 mg/L (Water)
Sediment (soft water)	3.73 mg/Kg (Soil)
Sediment (sea water)	0.75 mg/Kg (Soil)

- Ingredients with biological limit values:**111-76-2 2-butoxyethanol**

BMGV	240 mmol/mol creatinine
	Medium: urine
	Sampling time: post shift
	Parameter: butoxyacetic acid

- **Additional information:** The lists that were valid during the compilation were used as basis.

- 8.2 Exposure controls

- **Appropriate engineering controls** No further data; see section 7.

- **Individual protection measures, such as personal protective equipment**

- **General protective and hygienic measures**

Keep away from foodstuffs, beverages and food.

Take off immediately all contaminated clothing

Wash hands during breaks and at the end of the work.

Avoid contact with the skin.

Avoid contact with the eyes and skin.

- **Breathing equipment:** Not required.

- **Hand protection**



Protective gloves. (EN 374)

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

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Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

PVC gloves

Recommended thickness of the material: ≥ 0.1 mm

Nitrile rubber, NBR

- Penetration time of glove material

For the mixture of chemicals mentioned below the penetration time has to be at least 15 minutes (Permeation according to EN 16523-1:2015: Level 1).

- Eye/face protection

Tightly sealed safety glasses.

- Environmental exposure controls Disposal must be made according to official regulations.

SECTION 9: Physical and chemical properties

- 9.1 Information on basic physical and chemical properties**- General Information**

- Physical state	Fluid
- Colour:	Yellow
- Odour:	Pleasant
- Odour threshold:	Not determined.
- Melting point/freezing point:	Not determined
- Boiling point or initial boiling point and boiling range	100 °C
- Flammability	Not applicable.
- Lower and upper explosion limit	
- Lower:	Not determined.
- Upper:	Not determined.
- Flash point:	Not applicable
- Decomposition temperature:	Not determined.
- pH at 20 °C	7.5
- Viscosity at 20 °C:	1000 - 2000 cPs
- Kinematic viscosity at 20 °C	1,000 mm ² /s
- dynamic:	Not determined.
- Solubility	
- Water:	Fully miscible
- Partition coefficient n-octanol/water (log value)	Not determined.
- Vapour pressure:	Not determined.
- Density and/or relative density	
- Density at 20 °C	1.04 g/cm ³
- Relative density	Not determined.
- Vapour density	Not determined.

- 9.2 Other information**- Appearance:**

- Form: Liquid

- Important information on protection of health and environment, and on safety.

- Self-flammability: Product is not selfigniting.

- Explosive properties: Product is not explosive.

- Change in condition

- Evaporation rate Not determined.

- Information with regard to physical hazard classes

- Explosives Void

- Flammable gases Void

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- Aerosols	Void
- Oxidising gases	Void
- Gases under pressure	Void
- Flammable liquids	Void
- Flammable solids	Void
- Self-reactive substances and mixtures	Void
- Pyrophoric liquids	Void
- Pyrophoric solids	Void
- Self-heating substances and mixtures	Void
- Substances and mixtures, which emit flammable gases in contact with water	Void
- Oxidising liquids	Void
- Oxidising solids	Void
- Organic peroxides	Void
- Corrosive to metals	Void
- Desensitised explosives	Void

SECTION 10: Stability and reactivity

- 10.1 Reactivity Stable under normal conditions
- 10.2 Chemical stability
- Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- 10.3 Possibility of hazardous reactions No dangerous reactions known
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: No further relevant information available.
- 10.6 Hazardous decomposition products: No dangerous decomposition products known

SECTION 11: Toxicological information

- 11.1 Information on hazard classes as defined in Regulation (EC) No 1272/2008
- Acute toxicity Based on available data, the classification criteria are not met.

- LD/LC50 values that are relevant for classification:

85536-14-7 Dodecylbenzene sulphonic acid

Oral LD50 1,350 mg/Kg (Rat)

Dermal LD50 >2,000 mg/Kg (Rat)

8051-30-7 Coco Diethanolamide

Oral LD50 >5,000 mg/Kg (Rat)

Dermal LD50 >2,000 mg/Kg (Rabbit)

68515-73-1 Alkyl polyglucosyde C8-C10

Oral LD50 >2,000 mg/Kg (Rat)

Dermal LD50 >2,000 mg/Kg (Rat)

68439-57-6 Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts

Oral LD50 2,079 mg/Kg (Rat)

Dermal LD50 6,300 mg/Kg (Rabbit)

9004-82-4 Sodium Laureth Sulphate

Oral LD50 >2,000 mg/Kg (Rat)

111-76-2 2-butoxyethanol

Oral LD50 1,200 mg/Kg (ATE)

>2,000 mg/Kg (Rabbit)

1,746 mg/Kg (Rat)

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Dermal	LD50	>2,000 mg/Kg (Rat)
64-02-8 tetrasodium ethylenediaminetetraacetate		
Oral	LD50	1,780 mg/Kg (Rat)
54464-57-2 Amberonne		
Oral	LD50	>5,000 mg/Kg (Rat)
Dermal	LD50	>5,000 mg/Kg (Rabbit)
		>5,000 mg/Kg (Rat)

- **Skin corrosion/irritation** Causes severe skin burns and eye damage.
- **Serious eye damage/irritation** Causes serious eye damage.
- **Respiratory or skin sensitisation** Based on available data, the classification criteria are not met.
- **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** 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

- Aquatic toxicity:

85536-14-7 Dodecylbenzene sulphonic acid		
LC50 (96h)	1-10 mg/L (Fish)	
EC50 (48h)	1-10 mg/L (Daphnia)	
8051-30-7 Coco Diethanolamide		
LC50 (96h)	2.4 mg/L (Fish)	
EC50 (48h)	3.2 mg/L (Daphnia)	
68515-73-1 Alkyl polyglucosyde C8-C10		
LC50 (96h)	126 mg/L (Fish)	
EC50 (48h)	>100 mg/L (Daphnia)	
EC50 (72h)	27.22 mg/L (Algae)	
68439-57-6 Sulfonic acids, C14-16-alkane hydroxy and C14-16-alkene, sodium salts		
LC50 (96h)	4.2 mg/L (Fish)	
EC50 (48h)	4.53 mg/L (Daphnia)	
EC50 (72h)	5.2 mg/L (Algae)	
9004-82-4 Sodium Laureth Sulphate		
LC50 (96h)	>1 mg/L (Fish)	
EC50 (48h)	7.2 mg/L (Daphnia)	
EC50 (72h)	7.5 mg/L (Algae)	
1310-58-3 potassium hydroxide		
LC50 (96h)	80 mg/L (Fish)	
111-76-2 2-butoxyethanol		
LC50 (96h)	1,474 mg/L (Fish)	
EC50 (48h)	1,550 mg/L (Daphnia)	
EC50 (72h)	911 mg/L (Algae)	
64-02-8 tetrasodium ethylenediaminetetraacetate		
LC50 (96h)	>100 mg/L (Fish)	
EC50 (48h)	140 mg/L (Daphnia)	

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EC50 (72h)	>100 mg/L (Algae)
54464-57-2 Amberonne	
LC50 (96h)	1.3 mg/L (Fish)
EC50 (48h)	1.38 mg/L (Daphnia)
EC50 (72h)	2.6 mg/L (Algae)

- **12.2 Persistence and degradability** The contained surfactants are easily biodegradable
- **12.3 Bioaccumulative potential** No further relevant information available.
- **12.4 Mobility in soil** No further relevant information available.
- **12.5 Results of PBT and vPvB assessment**
- **PBT:** Not applicable.
- **vPvB:** Not applicable.
- **12.6 Endocrine disrupting properties** The product does not contain substances with endocrine disrupting properties.
- **12.7 Other adverse effects**
- **Additional ecological information:**
- **General notes:**
Do not allow product to reach ground water, water bodies or sewage system.
Danger to drinking water if even small quantities leak into soil.
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**
- **Recommendation**
Must not be disposed of together with household garbage. Do not allow product to reach sewage system.
- **Uncleaned packagings:**
- **Recommendation:** Disposal must be made according to official regulations.
- **Recommended cleaning agent:** Water, if necessary with cleaning agent.

SECTION 14: Transport information

- 14.1 UN number or ID number - ADR, IMDG, IATA	Void
- 14.2 UN proper shipping name - ADR, IMDG, IATA	Void
- 14.3 Transport hazard class(es) - ADR, IMDG, IATA - Class	Void
- 14.4 Packing group - ADR, IMDG, IATA	Void
- 14.5 Environmental hazards:	Not applicable.
- 14.6 Special precautions for user	Not applicable.
- 14.7 Maritime transport in bulk according to IMO instruments	Not applicable.

GB
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Safety data sheet according to 2020/878/EC

Printing date 20.12.2023

Version number 5 (replaces version 1)

Revision: 20.12.2023

Trade name: **SEMPER**

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SECTION 15: Regulatory information

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

- Directive 2012/18/EU

- Named dangerous substances - ANNEX I None of the ingredients is listed.

- National regulations

- Classification according to VbF: Void

- Technical instructions (air):

Class	Share in %
NK	1.0

- Water hazard class: Water hazard class 2 (Self-assessment): hazardous for water.

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

SECTION 16: Other information

- Relevant phrases

H290 May be corrosive to metals.

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.

H372 Causes damage to organs through prolonged or repeated exposure.

H400 Very toxic to aquatic life.

H411 Toxic to aquatic life with long lasting effects.

H412 Harmful to aquatic life with long lasting effects.

- Department issuing data specification sheet: Ma-Fra Laboratories

- Contact: lab@mafra.it

- Abbreviations and acronyms:

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

GHS: Globally Harmonised System of Classification and Labelling of Chemicals

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)

VbF: Verordnung über brennbare Flüssigkeiten, Österreich (Ordinance on the storage of combustible liquids, Austria)

DNEL: Derived No-Effect Level (UK REACH)

PNEC: Predicted No-Effect Concentration (UK REACH)

LC50: Lethal concentration, 50 percent

LD50: Lethal dose, 50 percent

PBT: Persistent, Bioaccumulative and Toxic

vPvB: very Persistent and very Bioaccumulative

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

Acute Tox. 4: Acute toxicity – Category 4

Acute Tox. 3: Acute toxicity – Category 3

Skin Corr. 1A: Skin corrosion/irritation – Category 1A

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 RE 1: Specific target organ toxicity (repeated exposure) – Category 1

Aquatic Acute 1: Hazardous to the aquatic environment - acute 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.