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Safety data sheet according to 2020/878/EC

Printing date 10.01.2024	Version number 2 (replaces version 1)	Revision: 10.01.2024
SECTION 1: Identification	n of the substance/mixture and of the company	/undertaking
 1.1 Product identifier Trade name: <u>PRIMUS 2.0</u> UFI: 1786-C0R4-400J-KA55 1.2 Relevant identified uses of the Life cycle stages PW Widespread use by professional uses C Consumer use Sector of Use SU22 Professional uses: Public SU21 Consumer uses: Private be Product category PC35 Washin Recommended use Exterior vehicles 	he substance or mixture and uses advised against Fonal workers Todomain (administration, education, entertainment, servi households / general public / consumers Tog and cleaning products (including solvent based produc ccle cleaner	ces, craftsmen) cts)
 - 1.3 Details of the supplier of the - 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@ma - 1.4 Emergency telephone numb 	afra.it e r: In case of accident call the emergency number 112	
SECTION 2: Hazards iden - 2.1 Classification of the substan - Classification according to Regu Corrosion Skin Corr. 1A H314 Causes seve Eye Dam. 1 H318 Causes seve - 2.2 Label elements - Labelling according to Regulation The product is classified and lab - Hazard pictograms GHS05 - Signal word Danger - Hazard-determining component 1-hydroxy ethylidene-1, 1diphosp Sodium metasilicate, pentahydra Ethoxy Alchol C9-C11	tification ce or mixture ulation (EC) No 1272/2008 ere skin burns and eye damage. ous eye damage. on (EC) No 1272/2008 elled according to the GB CLP regulation.	
tetrasodium ethylenediaminetetr	aacetate	(Contd. on page 2)
Ethoxy Alchol C9-C11 tetrasodium ethylenediaminetetra	nacetate	(Contd. on page 2) G

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- Hazard statements

H314 Causes severe skin burns and eye damage.

- Precautionary statements P102 Keep o

Keep out of reach of children.

P280 Wear protective gloves / eye protection / face protection.

P301+P330+P331 IF SWALLOWED: Rinse mouth. Do NOT induce vomiting.

- 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
 - Dispose of contents/container in accordance with local/regional/national/international regulation

- 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: 9004-82-4	Sodium Laureth Sulphate Sodium Laureth Sulphate Eye Dam. 1, H318; \bigcirc Skin Irrit. 2, H315 Specific concentration limits: Eye Dam. 1; H318: $C \ge 10 \%$ Eye Irrit. 2; H319: 5 % $\le C < 10 \%$	3-5%
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-<3%
CAS: 2809-21-4 EINECS: 220-552-8 Reg.nr.: 01-2119510391-53	1-hydroxy ethylidene-1,1diphosphonic acid ♦ Met. Corr.1, H290; Eye Dam. 1, H318; ♦ Acute Tox. 4, H302	1-<3%
CAS: 78330-20-8 EC number: 616-607-4	Ethoxy Alchol C9-C11	1-<3%
CAS: 64-02-8 EINECS: 200-573-9 Reg.nr.: 01-2119486762-27	tetrasodium ethylenediaminetetraacetate	1-<3%
CAS: 10213-79-3 EINECS: 229-912-9 Reg.nr.: 01-2119449811-37	Sodium metasilicate, pentahydrate Ø Met. Corr. I, H290; Skin Corr. 1B, H314; STOT SE 3, H335	1-<3%
CAS: 1310-73-2 EINECS: 215-185-5 Reg.nr.: 01-2119457892-27	sodium hydroxide Skin Corr. 1A, H314 Specific concentration limits: Skin Corr. 1A; H314: $C \ge 5$ % Skin Corr. 1B; H314: 2 % $\le C < 5$ % Skin Irrit. 2; H315: 0.5 % $\le C < 2$ % Eye Irrit. 2; H319: 0.5 % $\le C < 2$ %	1-<3%
CAS: 1310-58-3 EINECS: 215-181-3 Reg.nr.: 01-2119487136-33	potassium hydroxide Skin Corr. 1A, H314; \bigcirc Acute Tox. 4, H302 Specific concentration limits: Skin Corr. 1A; H314: $C \ge 5$ % Skin Corr. 1B; H314: 2 % $\le C < 5$ % Skin Irrit. 2; H315: 0.5 % $\le C < 2$ % Eye Irrit. 2; H319: 0.5 % $\le C < 2$ %	<1%

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- 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 Do not induce vomiting; instantly call for medical help. Drink copious amounts of water and provide fresh air. Instantly call for doctor.
- 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
- 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 Product forms slippery surface when combined with water. 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 Recommended thickness of the material: ≥ 0.1 mm Nitrile rubber, NBR

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- 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). Use neutralising agent. 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 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: Do not store together with acids.
- Further information about storage conditions: Keep container tightly sealed.
- 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:

111-76-2 2-butoxyethanol

WEL Short-term value: 246 mg/m³, 50 ppm Long-term value: 123 mg/m³, 25 ppm Sk, BMGV

1310-58-3 potassium hydroxide

WEL Short-term value: 2 mg/m³

- DNELs

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/m³ (Industrial Workers)		
		52 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)		
	· · · · · · · · · · · · · · · · · · ·			

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		89 mg/Kg bw/day (Consumers)
Inhalative	Local long-term effects	67.5 mg/m ³ (Industrial Workers)
		40.5 mg/m ³ (Consumers)
	Local short-term effects	246 mg/m³ (Industrial Workers)
		147 mg/m ³ (Consumers)
	Systemic long-term effects	98 mg/m³ (Industrial Workers)
		59 mg/m ³ (Consumers)
	Systemic Short-term Effects	1,091 mg/m³ (Industrial Workers)
		426 mg/m ³ (Consumers)
2809-21-4	1-hydroxy ethylidene-1,1dip	phosphonic acid
Oral	Systemic Long-term Effects	13 mg/Kg bw/day (Consumers)
	Systemic short-term effects	13 mg/m ³ (Industrial Workers)
	v	6.5 mg/m ³ (Consumers)
Dermal	Systemic long-term effects	13 mg/Kg hw/day (Industrial Workers)
64-02-8 tet	trasodium ethylenediaminet	
Oral	Systemic Long-term Effects	25 mg/Kg hw/day (Consumers)
Inhalative	Local long-torm offacts	1.5 mg/m ³ (Industrial Workers)
innululive	Locui iong-ier m'ejjecis	$\frac{1.5 \text{ mg/m}^3}{1.5 \text{ mg/m}^3} \left(C_{\text{onsumars}} \right)$
	Logal shout town offects	2 ma/m ³ (Lodustrial Workers)
	Local short-term effects	5 mg/m (Industrial Workers)
		1.2 mg/m (Consumers)
	Systemic long-term effects	1.5 mg/m ² (Industrial Workers)
	a . at .	0.6 mg/m ³ (Consumers)
	Systemic Short-term Effects	2.5 mg/m ³ (Industrial Workers)
		1.5 mg/m ³ (Consumers)
10213-79-3	3 Sodium metasilicate, penta	ahydrate
Oral	Systemic Long-term Effects	0.74 mg/Kg bw/day (Consumers)
Dermal	Systemic long-term effects	1.49 mg/Kg bw/day (Industrial Workers)
•		0.74 mg/Kg bw/day (Consumers)
		6.22 mg/m ³ (Industrial Workers)
Inhalative	Systemic long-term effects	0.22 mg/m (maistrai workers)
Inhalative	Systemic long-term effects	1.55 mg/m ³ (Consumers)
Inhalative 1310-73-2	Systemic long-term effects sodium hydroxide	1.55 mg/m ³ (Consumers)
Inhalative 1310-73-2 Inhalative	Systemic long-term effects sodium hydroxide Local long-term effects	1.55 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers)
Inhalative 1310-73-2 Inhalative	Systemic long-term effects sodium hydroxide Local long-term effects	1.55 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers)
Inhalative 1310-73-2 Inhalative	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects	1.55 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers)
Inhalative 1310-73-2 Inhalative	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects	1.55 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers)
Inhalative 1310-73-2 Inhalative 1310-58-3	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide	1.55 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers)
Inhalative 1310-73-2 Inhalative 1310-58-3 Inhalative	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide Local long-term effects	1.55 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers)
Inhalative 1310-73-2 Inhalative 1310-58-3 Inhalative	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide Local long-term effects	1.55 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Consumers)
Inhalative 1310-73-2 Inhalative 1310-58-3 Inhalative	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide Local long-term effects Systemic long-term effects	1.55 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Industrial Workers)
Inhalative 1310-73-2 Inhalative 1310-58-3 Inhalative	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide Local long-term effects Systemic long-term effects	1.55 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers)
Inhalative 1310-73-2 Inhalative 1310-58-3 Inhalative 308062-28	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide Local long-term effects Systemic long-term effects	1.55 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Industrial Workers) 1 mg/m ³ (Consumers) 1 mg/m ³ (Consumers)
Inhalative 1310-73-2 Inhalative 1310-58-3 Inhalative 308062-28 Oral	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide Local long-term effects Systemic long-term effects Systemic Long-term Effects	 1.22 mg/m (Industrial Workers) 1.55 mg/m³ (Consumers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Consumers) 1 mg/m³ (Consumers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Consumers) 1 mg/m³ (Consumers) 1 mg/m³ (Consumers) 1 mg/m³ (Consumers)
Inhalative 1310-73-2 Inhalative 1310-58-3 Inhalative 308062-28 Oral Dermal	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide Local long-term effects Systemic long-term effects Systemic Long-term Effects Systemic long-term effects	 1.22 mg/m (Industrial Workers) 1.55 mg/m³ (Consumers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Consumers)
Inhalative 1310-73-2 Inhalative 1310-58-3 Inhalative 308062-28 Oral Dermal	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide Local long-term effects Systemic long-term effects Systemic Long-term Effects Systemic Long-term Effects Systemic long-term effects	 1.22 mg/m (Industrial Workers) 1.55 mg/m³ (Consumers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Consumers) 5 mg/Kg bw/day (Consumers)
Inhalative 1310-73-2 Inhalative 1310-58-3 Inhalative 308062-28 Oral Dermal	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide Local long-term effects Systemic long-term effects Systemic Long-term Effects Systemic long-term effects	0.22 mg/m (Industrial Workers) 1.55 mg/m³ (Consumers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Consumers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Consumers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Consumers) 0.44 mg/Kg bw/day (Consumers) 11 mg/Kg bw/day (Industrial Workers) 5.5 mg/Kg bw/day (Consumers) 6.2 mg/m³ (Industrial Workers)
Inhalative 1310-73-2 Inhalative 1310-58-3 Inhalative 308062-28 Oral Dermal Inhalative	Systemic long-term effects sodium hydroxide Local long-term effects Local short-term effects potassium hydroxide Local long-term effects Systemic long-term effects Systemic Long-term Effects Systemic long-term effects Systemic long-term effects	0.22 mg/m (Industrial Workers) 1.55 mg/m³ (Consumers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Consumers) 1 mg/m³ (Consumers) 1 mg/m³ (Industrial Workers) 1 mg/m³ (Consumers) 0.44 mg/Kg bw/day (Consumers) 11 mg/Kg bw/day (Industrial Workers) 5.5 mg/Kg bw/day (Consumers) 6.2 mg/m³ (Industrial Workers) 1.52 m (m³ (Industrial Workers))

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DUEC	(Contd. of page 5)		
- PNECs			
9004-82-4 Sodium Lo	uureth 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)	$\frac{0.917}{\text{mg/Kg}} (\text{Soil})$		
Sediment (sea water)	0.092 mg/Kg (Soil)		
DNEC STD			
PNEC SIP	403 mg/L (S1P)		
Soft Water	2.55 mg/Ag (3011)		
Soji waler	$\frac{0.88 \text{ mg/L}}{(Water)}$		
Sed water Sediment (soft water)	24.6 mg/Kg (Soil)		
Sediment (soft water)	$\frac{34.0 \text{ mg/Kg}(\text{Soll})}{2.46 \text{ mg/Kg}(\text{Soll})}$		
Quantization (sea water)	26.4 mg/Ag (300)		
2800 21 4 1 hydroxy	20.4 mg/L (water) athylidana 1 1dinhasphania aaid		
2009-21-4 1-nyuroxy	20 mg/L (STD)		
I NEC 511 Soil	$\frac{20 \text{ mg/L} (S11)}{96 \text{ mg/Kg} (Soil)}$		
Soft Water	0.136 mg/L (Water)		
Soji water Sea water	0.130 mg/L (water) 0.0136 mg/L (Water)		
Sediment (soft water)	59 mg/Kg (Soil)		
Sediment (sea water)	50 mg/Kg (Soil)		
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)		
10213-79-3 Sodium n	netasilicate, pentahydrate		
PNEC STP	1,000 mg/L (STP)		
Soft Water	7.5 mg/L (Water)		
Sea water	1 mg/L (Water)		
308062-28-4 Amines	oxide		
PNEC STP	24 mg/L (STP)		
Soil	1.02 mg/Kg (Soil)		
Soft Water	0.0335 mg/L (Water)		
Sea water	0.00335 mg/L (Water)		
Sediment (soft water)	5.24 mg/Kg (Soil)		
Sediment (sea water)	0.524 mg/Kg (Soil)		
- Ingredients with biol	ogical limit values:		
111-76-2 2-butoxyeth	anol		
BMGV 240 mmol/mo	l creatinine		
Medium: urin Sampling tim	le e. nost shift		
Parameter: b	Parameter: butoxyacetic acid		
- Additional information	<i>on:</i> The lists that were valid during the compilation were used as basis.		
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- -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 eyes and skin.
- Breathing equipment: Not required.
- Hand protection



Protective gloves. (EN 374)

Alkaline resistant gloves

The glove material has to be impermeable and resistant to the product/ the substance/ the preparation. Selection of the glove material on consideration of the penetration times, rates of diffusion and the degradation

- Material of gloves

Recommended thickness of the material: $\geq 0.1 \text{ mm}$ 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.

- Body protection: Alkaline resistant protective clothing
- Environmental exposure controls Disposal must be made according to official regulations. Dispose of packaging according to regulations on the disposal of packagings.

SECTION 9: Physical and chemical properties

-9.1 Information on basic physical and chemical properties - General Information - Physical state Fluid - Colour: Light yellow - Odour: Pleasant Not determined. - Odour threshold: -9 °C - Melting point/freezing point: >100 °C - Boiling point or initial boiling point and boiling range - 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 > 12- Viscosity: - Kinematic viscosity Not determined. - dynamic: Not determined. - Solubility - Water: Fully miscible

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- Partition coefficient n-octanol/water (log value)	Not determined.	
- Vapour pressure:	Not determined.	
- Density and/or relative density		
- Density at 20 °C	1.08g/cm^3	
- Relative density	Not determined.	
- Vapour density	Not determined.	
- 9.2 Other information		
- Appearance:		
- Form:	Fluid	
-Important information on protection of health a	and	
environment, and on safety.		
- Self-inflammability:	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	
- 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	s 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 Reacts with acids
- 10.4 Conditions to avoid No further relevant information available.
- 10.5 Incompatible materials: Reacts with strong acids
- 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:

9004-82-4 Sodium Laureth Sulphate

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

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111-76-2 2-butoxyethanol				
Oral	LD50	1,200 mg/Kg (ATE)		
		>2,000 mg/Kg (Rabbit)		
		1,746 mg/Kg (Rat)		
Dermal	LD50	>2,000 mg/Kg (Rat)		
78330-20-	8 Ethoxy	Alchol C9-C11		
Oral	LD50	300-2,000 mg/Kg (Rat)		
64-02-8 te	trasodiun	n ethylenediaminetetraacetate		
Oral	LD50	1,780 mg/Kg (Rat)		
10213-79-	3 Sodium	n metasilicate, pentahydrate		
Oral	LD50	1,152-1,349 mg/Kg (Rat)		
	NOAEL	260 mg/Kg (Mouse)		
		227 mg/Kg (Rat)		
Dermal	LD50	>5,000 mg/Kg (Rat)		
Inhalative	LC50	>2.06 mg/L (Rat)		
1310-73-2	sodium l	hydroxide		
Oral	LD50	2,000 mg/Kg (Rat)		
68439-46-	3 Ethoxy	Alchol C9-C11		
Oral	LD50	>2,000 mg/Kg (Rat)		
Dermal	LD50	>2,000 mg/Kg (Rabbit)		
1554325-2	20-0 Quat	ternary C12-14 alkyl methyl amine ethoxylate methyl chloride		
Oral	LD50	833 mg/Kg (Rat)		
308062-28	8-4 Amine	es oxide		
Oral	LD50	mg/Kg (Rat)		
	NOAEL	88 mg/Kg (Rat)		
Dermal	LD50	>2,000 mg/Kg (Rat)		
68439-46-	3 Ethoxy	Alchol C9-C11		
Oral	LD50	4,600 mg/Kg (Rat)		
Dermal	LD50	>2,000 mg/Kg (Rat)		
- Skin corro	osion/irrit	tation Causes severe skin burns and eye damage.		
- Serious ey	e damage	e/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:

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)

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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)
2809-21-4 1-hydroxy ethylidene-1,1diphosphonic acid
LC50 (96h) 195 mg/L (Fish)
EC50 (48h) 527 mg/L (Daphnia)
EC50 (96h) 7.2 mg/L (Algae)
78330-20-8 Ethoxy Alchol C9-C11
LC50 (96h) > 100 mg/L (Fish)
EC50 (48h) >100 mg/L (Daphnia)
EC50 (72h) > 100 mg/L (Algae)
64-02-8 tetrasodium ethylenediaminetetraacetate
LC50 (96h) > 100 mg/L (Fish)
EC50 (48h) 140 mg/L (Daphnia)
EC50 (72h) > 100 mg/L (Algae)
10213-79-3 Sodium metasilicate, pentahydrate
LC50 (96h) 210 mg/L (Fish)
EC50 (48h) 1,700 mg/L (Daphnia)
1310-73-2 sodium hydroxide
LC50 (96h) 45 mg/L (Fish)
EC50 (48h) 40.4 mg/L (Daphnia)
LC50 (48h) 189 mg/L (Fish)
68439-46-3 Ethoxy Alchol C9-C11
LC50 (96h) > 1-10 mg/L (Fish)
EC50 (48h) >1-10 mg/L (Daphnia)
EC50 (72h) > 1-10 mg/L (Algae)
1310-58-3 potassium hydroxide
LC50 (96h) 80 mg/L (Fish)
1554325-20-0 Quaternary C12-14 alkyl methyl amine ethoxylate methyl chloride
LC50 (96h) >10-100 mg/L (Fish)
EC50 (48h) >1-10 mg/L (Daphnia)
EC50 (72h) > 1-10 mg/L (Algae)
308062-28-4 Amines oxide
LC50 (96h) 2.67 mg/L (Fish)
EC50 (48h) 0.266 mg/L (Algae)
3.1 mg/L (Daphnia)
EC50 (96h) 2.67 mg/L (Fish)
EC50 (72h) 0.143 mg/L (Algae)
68439-46-3 Ethoxy Alchol C9-C11
EC50 (48h) 1.1-10 mg/L (Daphnia)
EC50 (72h) 1-10 mg/L (Algae)
LC50 (48h) >10-<100 mg/L (Daphnia)
- 12.2 Persistence and degradability The contained surfactants are easily biodegradable
- 12.3 Bioaccumulative potential No further relevant information available.
- 12.5 Results of PBT and vPvB assessment

- **PBT:** Not applicable.

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-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.

Must not reach sewage water or drainage ditch undiluted or unneutralised.

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.

Rinse off of bigger amounts into drains or the aquatic environment may lead to increased pH-values. A high pH-value harms aquatic organisms. In the dilution of the use-level the pH-value is considerably reduced, so that after the use of the product the aqueous waste, emptied into drains, is only low water-dangerous.

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.

Dispose of packaging according to regulations on the disposal of packagings.

14 1 UN number on ID number	
ADR, IMDG, IATA	UN1719
14.2 UN proper shipping name ADR, IMDG, IATA	CAUSTIC ALKALI LIQUID, N.O.S. (SODIUM HYDROXIL tetrasodium ethylenediaminetetraacetate)
14.3 Transport hazard class(es)	
ADR, IMDG, IATA	
Class	8 Corrosive substances.
Label	8
14.4 Packing group ADR, IMDG, IATA	111
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Corrosive substances.
Kemler Number:	80
EMS Number:	F- A , S - B
Segregation groups	(SGG18) Alkalis
Stowage Category	A
Segregation Code	SG22 Stow "away from" ammonium salts

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	(Contd. of page 11)		
- 14.7 Maritime transport in bulk accordin	g to IMO		
instruments	Not applicable.		
- Transport/Additional information:			
- ADR			
- Limited quantities (LQ)	5L		
- Excepted quantities (EQ)	Code: El		
	Maximum net quantity per inner packaging: 30 ml		
	Maximum net quantity per outer packaging: 1000 ml		
- Transport category	3		
- Tunnel restriction code	Ε		
- IMDG			
- Limited quantities (LQ)	5L		
- Excepted quantities (EQ)	Code: El		
	Maximum net quantity per inner packaging: 30 ml		
	Maximum net quantity per outer packaging: 1000 ml		

SECTION 15: Regulatory information

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

- Poisons Act

- Regulated explosives precursors				
None of the ingredients is listed.				
- Regulated poisons				
None of the ingredients is listed.				
- Reportable explosives precursors				
None of the ingredients is listed.				
- Reportable poisons				
1310-73-2 sodium hydroxide	12% of total caustic alkalinity			
1310-58-3 potassium hydroxide	17% of total caustic alkalinity			

- 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 3.0

- 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.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.

H319 Causes serious eye irritation.

H331 Toxic if inhaled.

H335 May cause respiratory irritation.

- Department issuing data specification sheet: Ma-Fra Laboratories

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- Contact: lab@mafra.it	
- Abbreviations and acronyms:	
ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Co	urriage of
Dangerous Goods by Road)	and age of
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	
ATE: Acute toxicity estimate values	
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	
STOT SE 3: Specific target organ toxicity (single exposure) – Category 3	
- * Data compared to the previous version altered.	
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