

Superboen DesignTegels

Safety Data Sheet

according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

Issue date: 12-8-2020 Revision date: 8-9-2022 Supersedes version of: 16-11-2016 Version: 8.2

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

1.1. Product identifier

Product form : Mixture
Name : Superboen DesignTegels
UFI : 00FM-DP4Q-SF07-UU3N
Product code : 5100.0_68012RV65
Type of product : Detergent
Product group : Trade product

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

1.2.1. Relevant identified uses

Main use category : Consumer use, Professional use
Industrial/Professional use spec : A.I.S.E. Guidance on Detergents Safe Use Mixture Information (SUMI):
<https://www.aise.eu/our-activities/regulatory-context/reach/safe-use-information-for-end-users.aspx>
Use of the substance/mixture : The data given here is based on the product properties as mentioned in section 1.1. and is provided on the assumption, that the product will be used in the manner and for the purposes for which the manufacturer indicates.
Use of the substance/mixture : Cleaner
Alkaline cleaner.
Function or use category : Cleaning/washing agents and additives

Title	Use descriptors
Professional uses; Brushing after trigger spraying or brushing with tools (Association ref code: AISE_SUMI_PW_10_1)	SU22, PC35, PROC10, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; (Trigger) spraying (Association ref code: AISE_SUMI_PW_11_1)	SU22, PC35, PROC11, ERC8a, AISE SPERC 8a.1.a.v2
Professional uses; Manual application (Association ref code: AISE_SUMI_PW_19_1)	SU22, PC35, PROC19, ERC8a, AISE SPERC 8a.1.a.v2
Transfer of product to a container (bottle/bucket/machine) (Association ref code: AISE_SUMI_PW_8a_1_G)	SU22, PC35, PROC8a, ERC8a, AISE SPERC 8a.1.a.v2
Consumer use of washing and cleaning products	SU21, PC35, ERC8a

Full text of use descriptors: see section 16

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Supplier

Design Tegels
Duurstedelaan 1
NL- 3525 AM Utrecht
Nederland
T +31 (0) 85 3001111
info@designtegels.nl

1.4. Emergency telephone number

Emergency number : See Section 1.3; Only during office hours

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Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Israel	Israel Poison Information Center Rambam Health Care Campus	6 Ha'Aliya Street 31096	+972 4 854 1900	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital MSD 2090	+356 2545 6508	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH	0344 892 0111	Only for healthcare professionals

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Skin corrosion/irritation, Category 1 H314
Serious eye damage/eye irritation, Category 1 H318
Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)

:



GHS05

Signal word (CLP)

: Danger

Contains

: C9-11 Pareth-(6-8); POTASSIUM HYDROXIDE; SODIUM HYDROXIDE

Hazard statements (CLP)

: H314 - Causes severe skin burns and eye damage.

Precautionary statements (CLP)

: P102 - Keep out of reach of children.

P280 - Wear protective gloves, eye 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.

P310 - Immediately call a POISON CENTER, a doctor.

P405 - Store locked up.

P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation.

Intended for general public

Child-resistant fastening

: Applicable

Tactile warning

: Applicable

2.3. Other hazards

Other hazards which do not result in classification

: No supplementary information available. The information in this section applies to the undiluted product.

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Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

The mixture does not contain substance(s) included in the list established in accordance with Article 59(1) of REACH for having endocrine disrupting properties, or is not identified as having endocrine disrupting properties in accordance with the criteria set out in Commission Delegated Regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at a concentration equal to or greater than 0,1 %

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	Conc. (% w/w)	Classification according to Regulation (EC) No. 1272/2008 [CLP]
2-butoxyethanol (INCI: BUTOXYETHANOL) substance with national workplace exposure limit(s) (GB, IE, MT); substance with a Community workplace exposure limit	CAS-No.: 111-76-2 EC-No.: 203-905-0 EC Index-No.: 603-014-00-0 REACH-no: 01-2119475108- 36	1 – 5	Acute Tox. 4 (Oral), H302 Acute Tox. Not classified (Dermal) Acute Tox. 3 (Inhalation:dust,mist), H331 Skin Irrit. 2, H315 Eye Irrit. 2, H319
2-(2-butoxyethoxy)ethanol (INCI: BUTOXYDIGLYCOL) substance with national workplace exposure limit(s) (GB, IE, MT); substance with a Community workplace exposure limit	CAS-No.: 112-34-5 EC-No.: 203-961-6 EC Index-No.: 603-096-00-8 REACH-no: 01-2119475104- 44	1 – 5	Eye Irrit. 2, H319
Potassiumcocoate (INCI: POTASSIUM COCOATE)	CAS-No.: 61789-30-8 EC-No.: 263-049-9	1 – 5	Eye Irrit. 2, H319
Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (INCI: C9-11 Pareth-(6-8))	CAS-No.: 160875-66-1	1 – 5	Acute Tox. 4 (Oral), H302 Eye Dam. 1, H318
2,2',2''-nitrilotriethanol (INCI: TRIETHANOLAMINE) substance with national workplace exposure limit(s) (IE)	CAS-No.: 102-71-6 EC-No.: 203-049-8 REACH-no: 01-2119486482- 31	1 – 5	Not classified
Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) substance with national workplace exposure limit(s) (GB, IE)	CAS-No.: 1310-58-3 EC-No.: 215-181-3 EC Index-No.: 019-002-00-8 REACH-no: 01-2119487136- 33	0,1 – 1	Met. Corr. 1, H290 Acute Tox. 4 (Oral), H302 Skin Corr. 1A, H314 Eye Dam. 1, H318
2,2'-iminodiethanol (INCI: DIETHANOLAMINE) substance with national workplace exposure limit(s) (IE)	CAS-No.: 111-42-2 EC-No.: 203-868-0 EC Index-No.: 603-071-00-1 REACH-no: 01-2119488930- 28	< 0,1	Acute Tox. 4 (Oral), H302 Skin Irrit. 2, H315 Eye Dam. 1, H318 STOT RE 2, H373 Aquatic Chronic 3, H412
Sodium hydroxide (INCI: SODIUM HYDROXIDE) substance with national workplace exposure limit(s) (GB, IE)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892- 27	< 0,1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

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Specific concentration limits:		
Name	Product identifier	Specific concentration limits
Potassium hydroxide (INCI: POTASSIUM HYDROXIDE)	CAS-No.: 1310-58-3 EC-No.: 215-181-3 EC Index-No.: 019-002-00-8 REACH-no: 01-2119487136-33	(0,5 ≤C < 2) Eye Irrit. 2, H319 (0,5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314
Sodium hydroxide (INCI: SODIUM HYDROXIDE)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	(0,5 ≤C < 2) Eye Irrit. 2, H319 (0,5 ≤C < 2) Skin Irrit. 2, H315 (2 ≤C < 5) Skin Corr. 1B, H314 (5 ≤C < 100) Skin Corr. 1A, H314

Full text of H- and EUH-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. Immediately call a POISON CENTER/doctor.
First-aid measures after skin contact	: Take off immediately all contaminated clothing. Rinse skin with water/shower. Immediately call a POISON CENTER/doctor.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor.
First-aid measures after ingestion	: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor.

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

Symptoms/effects	: Causes severe skin burns and eye damage.
Symptoms/effects after inhalation	: Overexposure may result in : Soar throat. Cough. Shortness of breath. Difficulty in breathing.
Symptoms/effects after skin contact	: Burns. Redness, pain.
Symptoms/effects after eye contact	: Blurred vision. Burning sensation. Tears. Redness, pain. Causes serious eye damage.
Symptoms/effects after ingestion	: May cause burns or irritation of the linings of the mouth, throat, and gastrointestinal tract.

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

In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	: Foam. Dry powder. Carbon dioxide. Water spray. Sand.
Unsuitable extinguishing media	: Do not use a heavy water stream.

5.2. Special hazards arising from the substance or mixture

Fire hazard	: Not combustible.
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5.3. Advice for firefighters

Firefighting instructions	: Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire fighting water from entering the environment.
Protection during firefighting	: Do not enter fire area without proper protective equipment, including respiratory protection.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Concerning personal protective equipment to use, see section 8. Material spilled on hard surface can present a serious slipping/falling hazard.

6.1.1. For non-emergency personnel

Emergency procedures : Evacuate unnecessary personnel.

6.1.2. For emergency responders

Protective equipment : Equip cleanup crew with proper protection.

Emergency procedures : Ventilate area.

6.2. Environmental precautions

Do not flush into surface water. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

Methods for cleaning up : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Dispose of in accordance with relevant local regulations. Wash away remainder with plenty of water.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Normal precautions for the use of chemicals and cleaners should be taken care of. See information supplied by the manufacturer. Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapour.

Hygiene measures : Do not eat, drink or smoke when using this product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Comply with applicable regulations.

Storage conditions : Keep only in the original container in a cool, well ventilated place. Keep container tightly closed. Protect from freezing.

Incompatible products : Strong bases. Strong acids.

Incompatible materials : Sources of ignition. Direct sunlight.

7.3. Specific end use(s)

No additional information available

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1 National occupational exposure and biological limit values

2-butoxyethanol (INCI: BUTOXYETHANOL) (111-76-2)

EU - Indicative Occupational Exposure Limit (IOEL)

Local name	2-Butoxyethanol
IOEL TWA	98 mg/m ³

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2-butoxyethanol (INCI: BUTOXYETHANOL) (111-76-2)	
IOEL TWA [ppm]	20 ppm
IOEL STEL	246 mg/m ³
IOEL STEL [ppm]	50 ppm
Remark	Skin
Regulatory reference	COMMISSION DIRECTIVE 2000/39/EC
Ireland - Occupational Exposure Limits	
Local name	2-Butoxyethanol (EGBE)
OEL TWA [1]	98 mg/m ³
OEL TWA [2]	20 ppm
OEL STEL	246 mg/m ³
OEL STEL [ppm]	50 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Malta - Occupational Exposure Limits	
Local name	2-Butoxyethanol
OEL TWA	98 mg/m ³
OEL TWA [ppm]	20 ppm
OEL STEL	246 mg/m ³
OEL STEL [ppm]	50 ppm
Regulatory reference	S.L.424.24
United Kingdom - Occupational Exposure Limits	
Local name	2-Butoxyethanol
WEL TWA (OEL TWA) [1]	123 mg/m ³
WEL TWA (OEL TWA) [2]	25 ppm
WEL STEL (OEL STEL)	246 mg/m ³
WEL STEL (OEL STEL) [ppm]	50 ppm
Remark	Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity), BMGV (Biological monitoring guidance values are listed in Table 2)
Regulatory reference	EH40. HSE
2-(2-butoxyethoxy)ethanol (INCI: BUTOXYDIGLYCOL) (112-34-5)	
EU - Indicative Occupational Exposure Limit (IOEL)	
Local name	2-(2-Butoxyethoxy)ethanol
IOEL TWA	67,5 mg/m ³
IOEL TWA [ppm]	10 ppm
IOEL STEL	101,2 mg/m ³
IOEL STEL [ppm]	15 ppm
Regulatory reference	COMMISSION DIRECTIVE 2006/15/EC
Ireland - Occupational Exposure Limits	
Local name	2-(2-Butoxyethoxy)ethanol

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2-(2-butoxyethoxy)ethanol (INCI: BUTOXYDIGLYCOL) (112-34-5)	
OEL TWA [1]	67,5 mg/m ³
OEL TWA [2]	10 ppm
OEL STEL	101,2 mg/m ³
OEL STEL [ppm]	15 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Malta - Occupational Exposure Limits	
Local name	2-(2-Butoxyethoxy) ethanol
OEL TWA	67,5 mg/m ³
OEL TWA [ppm]	10 ppm
OEL STEL	101,2 mg/m ³
OEL STEL [ppm]	15 ppm
Regulatory reference	S.L.424.24
United Kingdom - Occupational Exposure Limits	
Local name	2-(2-Butoxyethoxy)ethanol
WEL TWA (OEL TWA) [1]	67,5 mg/m ³
WEL TWA (OEL TWA) [2]	10 ppm
WEL STEL (OEL STEL)	101,2 mg/m ³
WEL STEL (OEL STEL) [ppm]	15 ppm
Regulatory reference	EH40. HSE
2,2',2"-nitrilotriethanol (INCI: TRIETHANOLAMINE) (102-71-6)	
Ireland - Occupational Exposure Limits	
Local name	Triethanolamine
OEL TWA [1]	5 mg/m ³
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)	
Ireland - Occupational Exposure Limits	
Local name	Potassium hydroxide
OEL STEL	2 mg/m ³
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016
United Kingdom - Occupational Exposure Limits	
Local name	Potassium hydroxide
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40. HSE
Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)	
Ireland - Occupational Exposure Limits	
Local name	Sodium hydroxide
OEL STEL	2 mg/m ³
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

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Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)

United Kingdom - Occupational Exposure Limits

Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40. HSE

2,2'-iminodiethanol (INCI: DIETHANOLAMINE) (111-42-2)

Ireland - Occupational Exposure Limits

Local name	Diethanolamine
OEL TWA [1]	1 mg/m ³ IFV (Inhlabl Fraction and Vapour)
OEL TWA [2]	0,2 ppm
Regulatory reference	Code of Practice for the Chemical Agents Regulations 2016

8.1.2. Recommended monitoring procedures

No additional information available

8.1.3. Air contaminants formed

No additional information available

8.1.4. DNEL and PNEC

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DNEL/DMEL (additional information)

See http	//www.dguv.de/ifa/de/gestis/limit_values/index.jsp: Information on ingredients.
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2-butoxyethanol (INCI: BUTOXYETHANOL) (111-76-2)

DNEL/DMEL (Workers)

Acute - systemic effects, dermal	89 mg/kg bodyweight/day
Acute - systemic effects, inhalation	633 – 1091 mg/m ³
Acute - local effects, inhalation	246 mg/m ³
Long-term - systemic effects, dermal	75 – 125 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	98 mg/m ³

DNEL/DMEL (General population)

Acute - systemic effects, dermal	44,5 – 89 mg/kg bodyweight/day
Acute - systemic effects, inhalation	426 mg/m ³
Acute - systemic effects, oral	13,4 – 26,7 mg/kg bodyweight/day
Acute - local effects, inhalation	123 mg/m ³
Long-term - systemic effects, oral	3,2 – 6,3 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	49 – 59 mg/m ³
Long-term - systemic effects, dermal	38 – 75 mg/kg bodyweight/day
Long-term - local effects, inhalation	147 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	8,8 mg/l
PNEC aqua (marine water)	0,88 mg/l

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2-butoxyethanol (INCI: BUTOXYETHANOL) (111-76-2)	
PNEC (Sediment)	
PNEC sediment (freshwater)	8,14 mg/kg dwt
PNEC sediment (marine water)	3,46 mg/kg dwt
PNEC (Soil)	
PNEC soil	2,8 mg/kg dwt
PNEC (STP)	
PNEC sewage treatment plant	463 mg/l
2-(2-butoxyethoxy)ethanol (INCI: BUTOXYDIGLYCOL) (112-34-5)	
DNEL/DMEL (Workers)	
Acute - local effects, inhalation	10 – 14 ppm (101.2 mg/m ³)
Long-term - systemic effects, dermal	20 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	67,5 mg/m ³
Long-term - local effects, inhalation	67,5 mg/m ³
DNEL/DMEL (General population)	
Acute - local effects, inhalation	7,5 – 50,6 mg/m ³
Long-term - systemic effects, oral	1,25 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	34 mg/m ³ (5ppm)
Long-term - systemic effects, dermal	10 mg/kg bodyweight/day
Long-term - local effects, inhalation	34 mg/m ³ (5ppm)
PNEC (Water)	
PNEC aqua (freshwater)	1 mg/l
PNEC aqua (marine water)	0,1 mg/l
PNEC aqua (intermittent, freshwater)	3,9 mg/l
PNEC (Sediment)	
PNEC sediment (freshwater)	4 (4 – 4,44) mg/kg dwt
PNEC sediment (marine water)	0,4 – 0,44 mg/kg dwt
PNEC (Soil)	
PNEC soil	0,32 mg/kg dwt
PNEC (Oral)	
PNEC oral (secondary poisoning)	56 mg/kg food
PNEC (STP)	
PNEC sewage treatment plant	200 mg/l
Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)	
DNEL/DMEL (Workers)	
Long-term - local effects, inhalation	1 mg/m ³
DNEL/DMEL (General population)	
Long-term - local effects, inhalation	1 mg/m ³

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Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)

DNEL/DMEL (Workers)

Acute - local effects, dermal	< 2 mg/kg bw/day
Acute - local effects, inhalation	2 mg/m ³
Long-term - systemic effects, inhalation	1 mg/m ³
Long-term - local effects, inhalation	1 mg/m ³

DNEL/DMEL (General population)

Long-term - local effects, inhalation	1 mg/m ³
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8.1.5. Control banding

No additional information available

8.2. Exposure controls

8.2.1. Appropriate engineering controls

No additional information available

8.2.2. Personal protection equipment

Personal protective equipment:

Avoid contact with skin, eyes and clothing. Avoid all unnecessary exposure. Protect eyes, face and skin from liquid splashes. Hand protection. Gloves. Eye protection. Safety glasses.

Personal protective equipment symbol(s):



8.2.2.1. Eye and face protection

Eye protection:

Wear eye/face protection. Chemical goggles or safety glasses. Standard. EN 166

8.2.2.2. Skin protection

Skin and body protection:

If repeated skin contact or contamination of clothing is likely, protective clothing should be worn

Hand protection:

protective gloves. Chemical resistant gloves (according to European standard NF EN 374 or equivalent). By prolonged exposure : Reusable gloves. Short term exposure. If there is a risk of liquid being splashed : Disposable gloves / Reusable gloves. Time of penetration is to be checked with the glove producer

Hand protection

Type	Material	Permeation	Thickness (mm)	Penetration	Standard
Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	6 (> 480 minutes)	>0.35 mm (NBR); >0.7 mm (HNBR)		EN 374-3
Disposable gloves / Reusable gloves	Nitrile rubber (NBR), Neoprene rubber (HNBR)	2 (> 30 minutes)	> 0.1 mm		EN 374-3

8.2.2.3. Respiratory protection

Respiratory protection:

No special protection required where adequate ventilation is maintained

8.2.2.4. Thermal hazards

No additional information available

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8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use. The information in this section applies to the undiluted product.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: Yellow.
Odour	: characteristic.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: ≥ 100 °C
Flammability	: Non flammable.
Explosive limits	: Not available
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: > 60 °C
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 12 – 12,5 (20°C)
Viscosity, kinematic	: $< 49,261$ mm ² /s
Viscosity, dynamic	: < 50 mPa.s (20°C)
Solubility	: Material highly soluble in water. completely soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1,015 g/cm ³ (20°C)
Relative density	: Not available
Relative vapour density at 20°C	: Not available
Particle characteristics	: Not applicable

9.2. Other information

9.2.1. Information with regard to physical hazard classes

No additional information available

9.2.2. Other safety characteristics

VOC content : 69 g/l (6.8 %l)

SECTION 10: Stability and reactivity

10.1. Reactivity

The product is non-reactive under normal conditions of use, storage and transport.

10.2. Chemical stability

The product is stable at normal handling and storage conditions.

10.3. Possibility of hazardous reactions

Keep away from oxidising agents and strongly acidic materials to prevent the possibility of exothermic reaction. No dangerous reactions known under normal conditions of use.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

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10.5. Incompatible materials

Avoid : Strong acids. Aluminium.

10.6. Hazardous decomposition products

Thermal decomposition generates : fume. Carbon monoxide. Carbon dioxide. Corrosive vapours.

SECTION 11: Toxicological information

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

Acute toxicity (oral) : Not classified
Acute toxicity (dermal) : Not classified
Acute toxicity (inhalation) : Not classified

2-butoxyethanol (INCI: BUTOXYETHANOL) (111-76-2)

LD50 oral rat	> 400 mg/kg
LD50 oral	1746 mg/kg bodyweight
LD50 dermal rat	1300 – ≤ 2270 mg/kg
LD50 dermal rabbit	1000 – 2000 mg/kg
LD50 dermal	435 mg/kg bodyweight
LC50 Inhalation - Rat	> 2,2 mg/l/4h

2-(2-butoxyethoxy)ethanol (INCI: BUTOXYDIGLYCOL) (112-34-5)

LD50 oral rat	3384 – 6600 mg/kg (mouse: 2410 mg/kg)
LD50 oral	5660 mg/kg bodyweight
LD50 dermal rabbit	2700 mg/kg
LD50 dermal	2764 mg/kg bodyweight
LC50 Inhalation - Rat [ppm]	> 29 (2h)
LC50 Inhalation - Rat (Dust/Mist)	> 196 mg/l/4h

Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (INCI: C9-11 Pareth-(6-8)) (160875-66-1)

LD50 oral rat	> 500 mg/kg
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2,2',2''-nitrilotriethanol (INCI: TRIETHANOLAMINE) (102-71-6)

LD50 oral rat	2000 – 7200 mg/kg (OECD 401)
LD50 oral	8000 mg/kg bodyweight
LD50 dermal rabbit	2000 – 20000 mg/kg (OECD 402)
LD50 dermal	> 10000 mg/kg bodyweight
LC50 Inhalation - Rat	(1,8 mg/m ³ , LC0, 8h, OECD)
LC50 Inhalation - Rat (Dust/Mist)	> 1,8 mg/m ³

Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)

LD50 oral rat	333 mg/kg
LD50 oral	333 mg/kg bodyweight

Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)

LD50 oral rat	> 500 mg/kg (Rabbit)
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2,2'-iminodiethanol (INCI: DIETHANOLAMINE) (111-42-2)	
LD50 oral rat	676 – 1600 mg/kg (OECD 401)
LD50 oral	710 mg/kg bodyweight
LD50 dermal rabbit	8200 – 12970 mg/kg (OECD 402)
LD50 dermal	12200 mg/kg bodyweight
LC50 Inhalation - Rat	(3.35 mg/m ³ , LC0, 4h, Aerosol, OECD 403) / (0.2 mg/m ³ , LC0, 8h, Aerosol, OECD403)

Skin corrosion/irritation : Causes severe skin burns.
pH: 12 – 12,5 (20°C)

2-butoxyethanol (INCI: BUTOXYETHANOL) (111-76-2)	
pH	≈ 7

2-(2-butoxyethoxy)ethanol (INCI: BUTOXYDIGLYCOL) (112-34-5)	
pH	≈ 7 (20°C)

Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (INCI: C9-11 Pareth-(6-8)) (160875-66-1)	
pH	7 (50g/l, 20°C)

Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)	
pH	> 14

Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)	
pH	> 14 > 14 (20 °C)

Serious eye damage/irritation : Causes serious eye damage.
pH: 12 – 12,5 (20°C)

2-butoxyethanol (INCI: BUTOXYETHANOL) (111-76-2)	
pH	≈ 7

2-(2-butoxyethoxy)ethanol (INCI: BUTOXYDIGLYCOL) (112-34-5)	
pH	≈ 7 (20°C)

Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (INCI: C9-11 Pareth-(6-8)) (160875-66-1)	
pH	7 (50g/l, 20°C)

Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)	
pH	> 14

Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)	
pH	> 14 > 14 (20 °C)

Respiratory or skin sensitisation	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Germ cell mutagenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Carcinogenicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Reproductive toxicity	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-single exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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2,2'-iminodiethanol (INCI: DIETHANOLAMINE) (111-42-2)

STOT-repeated exposure	May cause damage to organs through prolonged or repeated exposure.
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Viscosity, kinematic	< 49,261 mm²/s
Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (>= 2.5 EO)) (INCI: C9-11 Pareth-(6-8)) (160875-66-1)	
Viscosity, kinematic	≈ 300 mm²/s

11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

11.2.2. Other information

Potential adverse human health effects and symptoms	: Based on available data, the classification criteria are not met, With the product as such no toxicological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified as mentioned in section 2. Components that are toxic are mentioned in section 3.
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SECTION 12: Ecological information

12.1. Toxicity

Ecology - general	: With the product as such no ecological tests have been done. According to the criteria of art. 3 from (EC) Nr. 1272/2008 [CLP] this product is classified concerning the environment as mentioned in section 2. Components that are dangerous to the environment are mentioned in section 3.
Hazardous to the aquatic environment, short-term (acute)	: Not classified
Hazardous to the aquatic environment, long-term (chronic)	: Not classified

2-butoxyethanol (INCI: BUTOXYETHANOL) (111-76-2)

LC50 - Fish [1]	1700 mg/l (24h, Carassius auratus)
LC50 - Fish [2]	1474 (96h, Oncorhynchus mykiss)
EC50 - Crustacea [1]	1550 (48h)
EC50 - Other aquatic organisms [2]	911 mg/l IC50 alga (72 h) mg/l
EC50 72h - Algae [1]	911 mg/l (Pseudokirchneriella subcapitata)
NOEC chronic crustacea	> 100 mg/l (Daphnia magna, 21 d, OECD 211)
NOEC chronic algae	> 280 mg/l (Pseudokirchneriella subcapitata, OECD 201)

2-(2-butoxyethoxy)ethanol (INCI: BUTOXYDIGLYCOL) (112-34-5)

LC50 - Fish [1]	(1300 mg/l, 96h, Lepomis Macrochirus / 2000 mg/l 96h, Menidia sp.)
LC50 - Fish [2]	2700 mg/l (96h)
EC50 - Crustacea [1]	> 100 mg/l (48h)
EC50 - Crustacea [2]	4950 mg/l (48h)
EC50 72h - Algae [1]	> 100 mg/l (76h)
EC50 72h - Algae [2]	> 100 mg/l (IC50, 96h, Desmodesmus subspicatus)
NOEC chronic crustacea	≥ 100 (OECD 202)

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2-(2-butoxyethoxy)ethanol (INCI: BUTOXYDIGLYCOL) (112-34-5)	
NOEC chronic algae	> 100 (96h, <i>Desmodesmus subspicatus</i> , OECD 201)
Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (>= 2.5 EO)) (INCI: C9-11 Pareth-(6-8)) (160875-66-1)	
LC50 - Fish [1]	10 – 100 (96h, <i>Oncorhynchus mykiss</i>)
EC50 - Crustacea [1]	10 – 100 mg/l (48h)
EC50 72h - Algae [1]	10 – 100 mg/l (72h)
2,2',2''-nitritotriethanol (INCI: TRIETHANOLAMINE) (102-71-6)	
LC50 - Fish [1]	450 – 1000 mg/l (96h, <i>Lepomis macrochirus</i>)
LC50 - Fish [2]	11800 mg/l (96h, <i>Pimephales promelas</i> , OECD 203)
EC50 - Crustacea [1]	2038 mg/l (24h)
EC50 - Crustacea [2]	609,9 mg/l (48h, <i>Ceriodaphniadubia</i> , OECD 202)
EC50 - Other aquatic organisms [2]	216 mg/l IC50 alga (72 h) mg/l
EC50 72h - Algae [1]	216 – 516 mg/l (<i>Scenedesmus subspicatus</i> , OECD 201)
NOEC chronic crustacea	16 mg/l (21d, OECD 211)
Potassiumcocoate (INCI: POTASSIUM COCOATE) (61789-30-8)	
LC50 - Fish [1]	> 10 mg/l
EC50 - Crustacea [1]	> 10 mg/l (48h)
Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)	
LC50 - Fish [1]	45,4 – 80 mg/l (96h, Min: <i>Oncorhynchus mykiss</i> / Max: <i>Gambusia affinis</i>)
LC50 - Fish [2]	80 (24h)
EC50 - Crustacea [1]	40 – 40,4
EC50 - Crustacea [2]	40 – 240
Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)	
LC50 - Fish [1]	33 – 189 mg/l (96h)
LC50 - Fish [2]	189 (48h, <i>Leuciscus idus</i> , OECD 203) 125 mg/l (<i>Gambusia affinis</i> ; 96 h) 145 mg/l (<i>Poecilia reticulata</i> ; 24 h)
LC50 - Other aquatic organisms [1]	45,5 mg/l (LC50, fish, <i>Oncorhynchus mykiss</i>)
EC50 - Crustacea [1]	33 – 450 (48h)
EC50 - Crustacea [2]	40,4 mg/l (48h, <i>Ceriodaphnia</i> sp.)
EC50 - Other aquatic organisms [1]	> 33 mg/l EC50 waterflea (48 h)
2,2'-iminodiethanol (INCI: DIETHANOLAMINE) (111-42-2)	
LC50 - Fish [1]	1460 mg/l (96h, <i>Pimephales promelas</i>)
EC50 - Crustacea [1]	55 mg/l (48h)
EC50 72h - Algae [1]	7,8 mg/l (72h, <i>Scenedesmus subspicatus</i>)
EC50 72h - Algae [2]	2,2 mg/l (96h, <i>Pseudokirchneriella subcapitata</i>)
NOEC chronic crustacea	0,78 mg/l (21d, <i>Daphnia magna</i>)

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12.2. Persistence and degradability

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Persistence and degradability	Not established. 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.
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2-butoxyethanol (INCI: BUTOXYETHANOL) (111-76-2)

Biodegradation	90,4 – 95 % (OECD 301 E)
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Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (INCI: C9-11 Pareth-(6-8)) (160875-66-1)

Biodegradation	> 60 % (28d, OECD301B, C.4-C; 648/2004)
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Potassiumcocoate (INCI: POTASSIUM COCOATE) (61789-30-8)

Persistence and degradability	Readily biodegradable.
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12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.
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2-butoxyethanol (INCI: BUTOXYETHANOL) (111-76-2)

Partition coefficient n-octanol/water (Log Kow)	0,83
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2-(2-butoxyethoxy)ethanol (INCI: BUTOXYDIGLYCOL) (112-34-5)

Partition coefficient n-octanol/water (Log Pow)	0,3 – 4,69
Partition coefficient n-octanol/water (Log Kow)	0,56

Fatty alcohol ethoxylate (2-Propylheptanol, ethoxylated (≥ 2.5 EO)) (INCI: C9-11 Pareth-(6-8)) (160875-66-1)

Partition coefficient n-octanol/water (Log Pow)	0,3
Partition coefficient n-octanol/water (Log Kow)	0,3

2,2',2''-nitrilotriethanol (INCI: TRIETHANOLAMINE) (102-71-6)

Partition coefficient n-octanol/water (Log Pow)	-1
Partition coefficient n-octanol/water (Log Kow)	-1

Potassiumcocoate (INCI: POTASSIUM COCOATE) (61789-30-8)

Partition coefficient n-octanol/water (Log Kow)	1,19
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Potassium hydroxide (INCI: POTASSIUM HYDROXIDE) (1310-58-3)

Partition coefficient n-octanol/water (Log Kow)	-3,88
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Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)

Partition coefficient n-octanol/water (Log Kow)	-3,88
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2,2'-iminodiethanol (INCI: DIETHANOLAMINE) (111-42-2)

Partition coefficient n-octanol/water (Log Pow)	-2,18 – -1,4
Partition coefficient n-octanol/water (Log Kow)	-1,43

12.4. Mobility in soil

No additional information available

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12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Endocrine disrupting properties

No additional information available

12.7. Other adverse effects

Additional information : Avoid release to the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.
Product/Packaging disposal recommendations : This material and its container must be disposed of in a safe way, and as per local legislation. Product as it is : Chemical refuse, Dispose as hazardous waste. Empty containers can be dumped after cleaning according to local legislation. Recycling is preferred to disposal or incineration. Empty the packaging completely prior to disposal. Wash away remainder with plenty of water.
Ecology - waste materials : Avoid release to the environment.
European List of Waste (LoW) code : 20 01 29* - detergents containing dangerous substances

SECTION 14: Transport information

In accordance with ADR / IMDG / IATA / ADN / RID

ADR	IMDG	IATA	ADN	RID
14.1. UN number or ID number				
UN 1719	UN 1719	UN 1719	UN 1719	UN 1719
14.2. UN proper shipping name				
CAUSTIC ALKALI LIQUID, N.O.S.	CAUSTIC ALKALI LIQUID, N.O.S.	Caustic alkali liquid, n.o.s.	CAUSTIC ALKALI LIQUID, N.O.S.	CAUSTIC ALKALI LIQUID, N.O.S.
Transport document description				
UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Kaliumhydroxide ; Natriumhydroxide), 8, III, (E)	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Kaliumhydroxide ; Natriumhydroxide), 8, III	UN 1719 Caustic alkali liquid, n.o.s. (Kaliumhydroxide ; Natriumhydroxide), 8, III	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Kaliumhydroxide ; Natriumhydroxide), 8, III	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (Kaliumhydroxide ; Natriumhydroxide), 8, III
14.3. Transport hazard class(es)				
8	8	8	8	8
				
14.4. Packing group				
III	III	III	III	III
14.5. Environmental hazards				
Dangerous for the environment: No	Dangerous for the environment: No Marine pollutant: No	Dangerous for the environment: No	Dangerous for the environment: No	Dangerous for the environment: No

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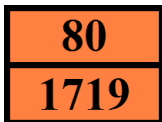
according to Regulation (EC) No. 1907/2006 (REACH) with its amendment Regulation (EU) 2020/878

ADR	IMDG	IATA	ADN	RID
No supplementary information available				

14.6. Special precautions for user

Overland transport

Classification code (ADR)	: C5
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5L
Excepted quantities (ADR)	: E1
Packing instructions (ADR)	: P001, IBC03, R001
Mixed packing provisions (ADR)	: MP19
Portable tank and bulk container instructions (ADR)	: T7
Portable tank and bulk container special provisions (ADR)	: TP1, TP28
Tank code (ADR)	: L4BN
Vehicle for tank carriage	: AT
Transport category (ADR)	: 3
Special provisions for carriage - Packages (ADR)	: V12
Hazard identification number (Kemler No.)	: 80
Orange plates	:



Tunnel restriction code (ADR)	: E
EAC code	: 2R

Transport by sea

Special provisions (IMDG)	: 223, 274
Limited quantities (IMDG)	: 5 L
Excepted quantities (IMDG)	: E1
Packing instructions (IMDG)	: P001
IBC packing instructions (IMDG)	: IBC03
Tank instructions (IMDG)	: T7
Tank special provisions (IMDG)	: TP1, TP28
EmS-No. (Fire)	: F-A
EmS-No. (Spillage)	: S-B
Stowage category (IMDG)	: A
Segregation (IMDG)	: SGG18, SG22, SG35
Properties and observations (IMDG)	: Reacts violently with acids. Reacts with ammonium salts, evolving ammonia gas. Causes burns to skin, eyes and mucous membranes.

Air transport

PCA Excepted quantities (IATA)	: E1
PCA Limited quantities (IATA)	: Y841
PCA limited quantity max net quantity (IATA)	: 1L
PCA packing instructions (IATA)	: 852
PCA max net quantity (IATA)	: 5L
CAO packing instructions (IATA)	: 856
CAO max net quantity (IATA)	: 60L
Special provisions (IATA)	: A3, A803
ERG code (IATA)	: 8L

Inland waterway transport

Classification code (ADN)	: C5
Special provisions (ADN)	: 274
Limited quantities (ADN)	: 5 L
Excepted quantities (ADN)	: E1
Equipment required (ADN)	: PP, EP
Number of blue cones/lights (ADN)	: 0

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Rail transport

Classification code (RID)	: C5
Special provisions (RID)	: 274
Limited quantities (RID)	: 5L
Excepted quantities (RID)	: E1
Packing instructions (RID)	: P001, IBC03, R001
Mixed packing provisions (RID)	: MP19
Portable tank and bulk container instructions (RID)	: T7
Portable tank and bulk container special provisions (RID)	: TP1, TP28
Tank codes for RID tanks (RID)	: L4BN
Transport category (RID)	: 3
Special provisions for carriage – Packages (RID)	: W12
Colis express (express parcels) (RID)	: CE8
Hazard identification number (RID)	: 80

14.7. Maritime transport in bulk according to IMO instruments

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

REACH Annex XVII (Restriction List)

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

REACH Annex XIV (Authorisation List)

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

REACH Candidate List (SVHC)

Contains no substance(s) listed on the REACH Candidate List

PIC Regulation (Prior Informed Consent)

Contains no substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals)

POP Regulation (Persistent Organic Pollutants)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

Ozone Regulation (1005/2009)

Contains no substance(s) listed on the Ozone Depletion list (Regulation EU 1005/2009 on substances that deplete the ozone layer)

VOC Directive (2004/42)

VOC content : 69 g/l (6.8 %l)

Detergent Regulation (648/2004/EC)

Labelling of contents	
Component	%
non-ionic surfactants, soap	<5%

Explosives Precursors Regulation (2019/1148)

Contains no substance(s) listed on the Explosives Precursors list (Regulation EU 2019/1148 on the marketing and use of explosives precursors)

Drug Precursors Regulation (273/2004)

Contains no substance(s) listed on the Drug Precursors list (Regulation EC 273/2004 on the manufacture and the placing on market of certain substances used in the illicit manufacture of narcotic drugs and psychotropic substances)

15.1.2. National regulations

No additional information available

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15.2. Chemical safety assessment

No chemical safety assessment has been carried out

Raw materials information section 3.

See <http://esis.jrc.ec.europa.eu/index.php?PGM=dat> : Information on ingredients.

Health hazards

See Section 2 & 3 & 11.

Physical hazards

See Section 2 & 10.

Environmental hazards

See Section 2 & 3 & 12.

SECTION 16: Other information

Indication of changes

Section	Changed item	Change	Comments
	Revision date	Modified	
	Version	Modified	Minor
	UFI	Added	
2.3	Other hazards	Modified	
6.1	General measures	Modified	
8.2	Exposure controls	Modified	Minor
13.1	Waste disposal recommendations	Modified	
15.1	EU-Regulations	Modified	
16	Data sources	Modified	
16	Abbreviations and acronyms	Modified	

Abbreviations and acronyms:

	ABM: Algemene Bepoortings Methodiek (NL) / ADR: Accord Européen relatif au transport international des marchandises dangereuses par route) / ALG: Allergen / AQT: Aquatic Toxicity / Atm: Atmosphere (unit of pressure) / bw: bodyweight / C: Ceiling / CAR: Carcinogenic Effects / CAS No: Chemical Abstracts Service Number (see ACS – American Chemical Society) / CMRs: Carcinogenic, Mutagenic or toxic to Reproduction (substances) / CSR: Chemical Safety Report / Cc (cm3): Cubic Centimeter / DNEL: Derived No-Effect Level / EC50: half maximal effective concentration / ED50: Effective Dose 50 / ET50: Exposure Time 50 / I.V.: Intravenous / Kg: Kilogram / LC: Lethal Concentration / LC50: Median Lethal Concentration / LCLO: Lowest Lethal Airborne Concentration Tested (see also LC50, LD50) / LD: Lethal Dose / LD50: Median Lethal Dose LDLO: Lowest Lethal Dose Tested (see also LC50, LD50) / MAC: Maximum Allowable Concentration / MAK: Maximale Arbeitsplatz-Konzentration (Germany, Maximum Workplace Concentration, see OEL) / MSDS: Material Safety Data Sheet / NOAEL: No Observed Adverse Effect Level / NOEL: No Observable Effect Level / OEL: Occupational Exposure Limits / PBTs: Persistent, Bioaccumulative and Toxic substances / PEC: Predicted Environmental Concentration / PNEC: Predicted No-Effect Concentration / REACH: Registration, Evaluation, Authorisation and Restriction of Chemical substances / STEL: Short-Term Exposure Limit / STEV: Short-Term Exposure Value / STP: Sewage Treatment Plant TLM: Threshold Limit, Median / TLV-C: Threshold Limit Value-Ceiling / TLV®: Threshold Limit Value / TWA: Time-Weighted Average / WGK: Wassergefährdungsklasse (Water Hazard Class under German Federal Water Management Act) / g/gms: Grams / kJ/mol: Kilojoules per mole / kPa: KiloPascal (unit of pressure) / m3: Cubic Meter / mg: Milligram / ml: Milliliter / ml Hg: Milliliters of Mercury / n.o.s.: Not Otherwise Specified / nm: nanometer / ppb: Parts Per Billion / pph: parts per hundred (= percent) / ppm: Parts Per Million / ppt: parts per trillion / vPvBs: Very Persistent and Very Bioaccumulative substances
ADN	European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways
ADR	European Agreement concerning the International Carriage of Dangerous Goods by Road
ATE	Acute Toxicity Estimate

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Abbreviations and acronyms:	
BCF	Bioconcentration factor
CLP	Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008
DMEL	Derived Minimal Effect level
DNEL	Derived-No Effect Level
DPD	Dangerous Preparations Directive 1999/45/EC
DSD	Dangerous Substances Directive 67/548/EEC
EC50	Median effective concentration
IARC	International Agency for Research on Cancer
IATA	International Air Transport Association
IMDG	International Maritime Dangerous Goods
LC50	Median lethal concentration
LD50	Median lethal dose
LOAEL	Lowest Observed Adverse Effect Level
NOAEC	No-Observed Adverse Effect Concentration
NOAEL	No-Observed Adverse Effect Level
NOEC	No-Observed Effect Concentration
OECD	Organisation for Economic Co-operation and Development
PBT	Persistent Bioaccumulative Toxic
PNEC	Predicted No-Effect Concentration
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006
RID	Regulations concerning the International Carriage of Dangerous Goods by Rail
STP	Sewage treatment plant
TLM	Median Tolerance Limit
SDS	Safety Data Sheet
vPvB	Very Persistent and Very Bioaccumulative

Data sources

: Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals. REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006. Regulation (EC) No. 648/2004 of 31 March 2004 on detergents.

Other information

: None. DISCLAIMER OF LIABILITY The information in this SDS was obtained from sources which we believe are reliable. However, the information is provided without any warranty, express or implied, regarding its correctness. The conditions or methods of handling, storage, use or disposal of the product are beyond our control and may be beyond our knowledge. For this and other reasons, we do not assume responsibility and expressly disclaim liability for loss, damage or expense arising out of or in any way connected with the handling, storage, use or disposal of the product. This SDS was prepared and is to be used only for this product. If the product is used as a component in another product, this SDS information may not be applicable.

Full text of H- and EUH-statements:	
Acute Tox. 3 (Inhalation:dust,mist)	Acute toxicity (inhalation:dust,mist) Category 3

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Full text of H- and EUH-statements:	
Acute Tox. 4 (Oral)	Acute toxicity (oral), Category 4
Acute Tox. Not classified (Dermal)	Acute toxicity (dermal) Not classified
Aquatic Chronic 3	Hazardous to the aquatic environment – Chronic Hazard, Category 3
Eye Dam. 1	Serious eye damage/eye irritation, Category 1
Eye Irrit. 2	Serious eye damage/eye irritation, Category 2
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.
H373	May cause damage to organs through prolonged or repeated exposure.
H412	Harmful to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, Category 1
Skin Corr. 1	Skin corrosion/irritation, Category 1
Skin Corr. 1A	Skin corrosion/irritation, Category 1, Sub-Category 1A
Skin Corr. 1B	Skin corrosion/irritation, Category 1, Sub-Category 1B
Skin Irrit. 2	Skin corrosion/irritation, Category 2
STOT RE 2	Specific target organ toxicity – Repeated exposure, Category 2

Full text of use descriptors	
AISE SPERC 8a.1.a.v2	Wide Dispersive Use in 'Down the Drain' cleaning and maintenance products (Consumers and Professionals)
ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
PC35	Washing and cleaning products
PROC10	Roller application or brushing
PROC11	Non industrial spraying
PROC19	Manual activities involving hand contact
PROC8a	Transfer of substance or mixture (charging and discharging) at non-dedicated facilities
SU21	Consumer uses: Private households (= general public = consumers)
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

Safety Data Sheet (SDS), EU

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should not therefore be construed as guaranteeing any specific property of the product.