



BW! Tegen schimmel

Safety Data Sheet

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

Issue date: 2016/05/10 Revision date: 2022/10/17 Supersedes version of: 2013/11/12 Version: 2.1

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

1.1. Product identifier

Product form : Mixture
Name : BW! Tegen schimmel
UFI : AV8V-YQ41-UK07-QP8J
Product code : 6502.0_35015DE15 EAN8712038003398
Type of product : Biocidal products (e.g. Disinfectants, pest control), 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
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 : Disinfectant
Function or use category : Biocidal products (e.g. Disinfectants, pest control), Read label before use.

Title	Use descriptors
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

Blue Wonder!
Aerdenhoutsduinweg 1
NL- 2111AN Aerdenhout
Nederland
T +31 (0)251-315683 - F +31 (0)251-311197
info@bluewonder.nl

1.4. Emergency telephone number

Emergency number : See Section 1.3; Only during office hours

Country	Organisation/Company	Address	Emergency number	Comment
Ireland	National Poisons Information Centre Beaumont Hospital	PO Box 1297 Beaumont Road 9 Dublin	+353 1 809 2566 (Healthcare professionals- 24/7) +353 1 809 2166 (public, 8am - 10pm, 7/7)	
Malta	Medicines & Poisons Info Office	Mater Dei Hospital Msida MSD 2090 Msida	+356 2545 6508	
United Kingdom	National Poisons Information Service (Birmingham Centre) City Hospital	Dudley Road B18 7QH Birmingham	0344 892 0111	Only for healthcare professionals

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SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Corrosive to metals, Category 1	H290
Skin corrosion/irritation, Category 2	H315
Serious eye damage/eye irritation, Category 2	H319
Hazardous to the aquatic environment – Acute Hazard, Category 1	H400
Hazardous to the aquatic environment – Chronic Hazard, Category 1	H410

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

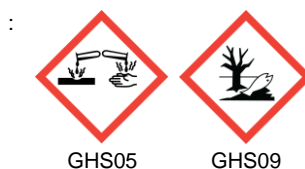
Adverse physicochemical, human health and environmental effects

No additional information available

2.2. Label elements

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

Hazard pictograms (CLP)



Signal word (CLP)

: Warning

Contains

: SODIUM HYPOCHLORITE; SODIUM HYDROXIDE

Hazard statements (CLP)

: H290 - May be corrosive to metals.
H315 - Causes skin irritation.
H319 - Causes serious eye irritation.
H410 - Very toxic to aquatic life with long lasting effects.

Precautionary statements (CLP)

: P101 - If medical advice is needed, have product container or label at hand.
P102 - Keep out of reach of children.
P260 - Do not breathe spray.
P273 - Avoid release to the environment.
P391 - Collect spillage.
P501 - Dispose of contents/container to a hazardous or special waste collection point, Meet the legal requirements.

EUH-statements

: EUH031 - Contact with acids liberates toxic gas.
EUH206 - Warning! Do not use together with other products. May release dangerous gases (chlorine).

Extra phrases

: Contains : Sodium hypochlorite solution, 53.7 g/l.

Intended for general public

Child-resistant fastening

: Not applicable

Tactile warning

: Not applicable

Nordic countries regulation

Denmark

MAL code

: 00-1 (Executive Order No. 301 from 1993)

2.3. Other hazards

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 %

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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]
Water (INCI: AQUA) substance with national workplace exposure limit(s) (LV)	CAS-No.: 7732-18-5 EC-No.: 231-791-2	30 – 100	Not classified
Sodium hypochlorite solution (INCI: SODIUM HYPOCHLORITE)	CAS-No.: 7681-52-9 EC-No.: 231-668-3 EC Index-No.: 017-011-00-1 REACH-no: 01-2119488154-34	1 – 5	Met. Corr. 1, H290 Acute Tox. Not classified (Oral) Skin Corr. 1B, H314 Eye Dam. 1, H318 STOT SE 3, H335 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 1, H410
Sodium chloride (INCI: SODIUM CHLORIDE) substance with national workplace exposure limit(s) (LV, LT)	CAS-No.: 7647-14-5 EC-No.: 231-598-3 REACH-no: 01-2119485491-33	1 – 5	Not classified
Sodium hydroxide (INCI: SODIUM HYDROXIDE) substance with national workplace exposure limit(s) (BE, BG, DK, EE, FI, FR, GR, HU, IE, HR, LV, LT, AT, PL, PT, RO, SI, SK, ES, CZ, GB, SE)	CAS-No.: 1310-73-2 EC-No.: 215-185-5 EC Index-No.: 011-002-00-6 REACH-no: 01-2119457892-27	0,1 – 1	Met. Corr. 1, H290 Skin Corr. 1A, H314 Eye Dam. 1, H318

Specific concentration limits:

Name	Product identifier	Specific concentration limits (Conc. (% w/w))
Sodium hypochlorite solution (INCI: SODIUM HYPOCHLORITE)	CAS-No.: 7681-52-9 EC-No.: 231-668-3 EC Index-No.: 017-011-00-1 REACH-no: 01-2119488154-34	(5 ≤ C < 100) EUH031
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	: Allow affected person to breathe fresh air. Allow the victim to rest.
First-aid measures after skin contact	: Wash with plenty of water/.... Take off immediately all contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse thoroughly and plentifully with water, also under the eyelids. Obtain medical attention if pain, blinking or redness persists.

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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 : Not expected to present a significant hazard under anticipated conditions of normal use.
Symptoms/effects after inhalation : Not expected to present a significant inhalation hazard under anticipated conditions of normal use. May cause minor irritation to the respiratory tract and to other mucous membranes.
Symptoms/effects after skin contact : Causes skin irritation.
Symptoms/effects after eye contact : Blurred vision. Burning sensation. Tears. Redness.
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

No additional information available

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

Hazardous decomposition products in case of fire : On exposure to high temperature, may decompose, releasing toxic gases. Chlorine (Cl).

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.

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. Do not allow uncontrolled discharge of product into the environment. 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. Wash away remainder with plenty of water.

6.4. Reference to other sections

See Section 8. Exposure controls and personal protection.

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SECTION 7: Handling and storage

7.1. Precautions for safe handling

Additional hazards when processed	: May be corrosive to metals.
Precautions for safe handling	: Normal precautions for the use of chemicals and cleaners should be taken care of.
Hygiene measures	: Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work thoroughly after handling.

7.2. Conditions for safe storage, including any incompatibilities

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.
Packaging materials	: Do not store in corrodable metal.

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

Water (INCI: AQUA) (7732-18-5)	
Latvia - Occupational Exposure Limits	
Local name	pēc Cr(hroma-amonija alauns)
OEL TWA	0,02 mg/m ³
Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)	
Austria - Occupational Exposure Limits	
Local name	Natriumhydroxid
MAK (OEL TWA)	2 mg/m ³
MAK (OEL STEL)	4 mg/m ³
Regulatory reference	BGBl. II Nr. 186/2015
Belgium - Occupational Exposure Limits	
Local name	Sodium (hydroxyde de) # Natriumhydroxide
OEL TWA	2 mg/m ³
Remark	M: la mention "M" indique que lors d'une exposition supérieure à la valeur limite, des irritations apparaissent ou un danger d'intoxication aiguë existe. Le procédé de travail doit être conçu de telle façon que l'exposition ne dépasse jamais la valeur limite. Lors des mesurages, la période d'échantillonnage doit être aussi courte que possible afin de pouvoir effectuer des mesurages fiables. Le résultat des mesurages est calculé en fonction de la période d'échantillonnage. # M: de vermelding "M" duidt aan dat bij de blootstelling boven de grenswaarde irritatie optreedt of er gevaar bestaat voor acute vergiftiging. Het werkproces moet zo zijn ontworpen dat de blootstelling de grenswaarde nooit overschrijdt. Bij een controle geldt dat de bemonsterde periode zo kort mogelijk moet zijn om een betrouwbare meting te kunnen verrichten. het meetresultaat wordt dan gerelateerd aan de beschouwde periode.
Regulatory reference	Koninklijk besluit/Arrêté royal 11/03/2002

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Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)	
Bulgaria - Occupational Exposure Limits	
Local name	Натриева основа
OEL TWA	2 mg/m ³ алкални аерозоли
Regulatory reference	Наредба № 13 от 30.12.2003 г. за защита на работещите от рискове, свързани с експозиция на химични агенти при работа
Croatia - Occupational Exposure Limits	
Local name	Natrijev hidroksid; (kaustična soda)
KGVI (OEL STEL)	2 mg/m ³
Remark	C (nagrizajuće)
Regulatory reference	Pravilnik o izmjenama i dopunama Pravilnika o graničnim vrijednostima izloženosti opasnim tvarima pri radu i o biološkim graničnim vrijednostima (NN, br. 75/13)
Czech Republic - Occupational Exposure Limits	
Local name	Hydroxid sodný
PEL (OEL TWA)	1 mg/m ³
NPK-P (OEL C)	2 mg/m ³
Regulatory reference	Nařízení vlády č. 361/2007 Sb. (zapracovány změny č. 93/2012 Sb., 9/2013 Sb.)
Denmark - Occupational Exposure Limits	
Local name	Natriumhydroxid
OEL TWA [1]	2 mg/m ³
Regulatory reference	BEK nr 986 af 11/10/2012
Estonia - Occupational Exposure Limits	
Local name	Naatriumhüdroksiid
OEL TWA	1 mg/m ³
OEL STEL	2 mg/m ³
Regulatory reference	Vabariigi Valitsuse 18. septembri 2001. a määruse nr 293
Finland - Occupational Exposure Limits	
Local name	Natriumhydroksidi
HTP (OEL STEL)	2 mg/m ³ kattoarvo
Regulatory reference	HTP-ARVOT 2016 (Sosiaali- ja terveysministeriö)
France - Occupational Exposure Limits	
Local name	Sodium (hydroxyde de)
VME (OEL TWA)	2 mg/m ³
Remark	Valeurs recommandées/admises
Regulatory reference	Circulaire du Ministère du travail (réf.: INRS ED 984, 2016)
Greece - Occupational Exposure Limits	
OEL TWA	2 mg/m ³
OEL STEL	2 mg/m ³
Hungary - Occupational Exposure Limits	
Local name	NÁTRIUM-HIDROXID

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Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)	
AK (OEL TWA)	2 mg/m ³
CK (OEL STEL)	2 mg/m ³
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
Latvia - Occupational Exposure Limits	
Local name	Nātrijahidroksīds (nātrijasārms, kaustiskāsoda)
OEL TWA	0,5 mg/m ³
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	Natrio hidroksidas
NRV (OEL C)	2 mg/m ³
Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
Poland - Occupational Exposure Limits	
Local name	Wodorotlenek sodu
NDS (OEL TWA)	0,5 mg/m ³
NDSch (OEL STEL)	1 mg/m ³
Regulatory reference	Dz.U. 2014 poz. 817
Portugal - Occupational Exposure Limits	
Local name	Hidróxido de sódio
OEL C	2 mg/m ³
OEL C [ppm]	2 ppm
Regulatory reference	Norma Portuguesa NP 1796:2014
Romania - Occupational Exposure Limits	
Local name	Hidroxizi alcalini exprimati în hidroxid de sodium
OEL TWA	1 mg/m ³
OEL STEL	3 mg/m ³
Regulatory reference	Legea 319/2006 privind Securitatea și sănătatea în muncă și HG nr. 1/2012 de modificare și completare a HG 1218/2006
Slovakia - Occupational Exposure Limits	
Local name	Hydroxid sodný
NPHV (OEL TWA) [1]	2 mg/m ³
Regulatory reference	Nariadenie vlády č. 355/2006 Z. z.
Slovenia - Occupational Exposure Limits	
Local name	natrijev hidroksid
OEL TWA	2 mg/m ³
OEL STEL	2 mg/m ³
KTV	1

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Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)	
Regulatory reference	Uradni list RS, št. 102/2010 z dne 17.12.2010
Spain - Occupational Exposure Limits	
Local name	Hidróxido de sodio
VLA-EC (OEL STEL)	2 mg/m ³
Regulatory reference	Límites de Exposición Profesional para Agentes Químicos en España 2017. INSHT
Sweden - Occupational Exposure Limits	
Local name	Natriumhydroxid
NGV (OEL TWA)	1 mg/m ³ inhalerbar damm
KTV (OEL STEL)	2 mg/m ³ inhalerbar damm
Regulatory reference	Hygieniska gränsvärden (AFS 2015:7)
United Kingdom - Occupational Exposure Limits	
Local name	Sodium hydroxide
WEL STEL (OEL STEL)	2 mg/m ³
Regulatory reference	EH40. HSE
Iceland - Occupational Exposure Limits	
Local name	Natriumhýdroxíð (vítissóti)
OEL STEL	2 mg/m ³
Regulatory reference	Reglugerð um mengunarmörk og aðgerðir til að draga úr mengun á vinnustöðum (Nr. 390/2009)
Norway - Occupational Exposure Limits	
Local name	Natriumhydroksid
Grenseverdi (OEL TWA) [1]	2 mg/m ³
Takverdi (OEL C) [1]	2 mg/m ³
Regulatory reference	Arbeidstilsynet. Forskrift, best.nr. 704
Switzerland - Occupational Exposure Limits	
Local name	Aetznatron (s. Natriumhydroxid)
MAK (OEL TWA) [1]	2 mg/m ³ 2 mg/m ³
KZGW (OEL STEL)	2 mg/m ³ 2 mg/m ³
Remark	e(mg/m ³) - SS _C - Haut , OAW ^{KT} & Auge ^{KT} - NIOSH, OSHA
Sodium chloride (INCI: SODIUM CHLORIDE) (7647-14-5)	
Latvia - Occupational Exposure Limits	
Local name	Nātrijahlorīds
OEL TWA	5 mg/m ³
Regulatory reference	Ministru kabineta 2007.gada 15.maija noteikumiem Nr.325
Lithuania - Occupational Exposure Limits	
Local name	Natrio chloridas
IPRV (OEL TWA)	5 mg/m ³

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Sodium chloride (INCI: SODIUM CHLORIDE) (7647-14-5)

Regulatory reference	LIETUVOS HIGIENOS NORMA HN 23:2011
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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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Sodium hypochlorite solution (INCI: SODIUM HYPOCHLORITE) (7681-52-9)

DNEL/DMEL (Workers)

Acute - systemic effects, inhalation	3,1 mg/m ³
Acute - local effects, inhalation	3,1 mg/m ³
Long-term - local effects, dermal	0,5
Long-term - systemic effects, inhalation	1,55 mg/m ³
Long-term - local effects, inhalation	1,55 mg/m ³

DNEL/DMEL (General population)

Acute - systemic effects, inhalation	3,1 mg/m ³
Acute - local effects, inhalation	1,55 mg/m ³
Long-term - systemic effects, oral	0,26 mg/kg bodyweight/day
Long-term - systemic effects, inhalation	1,55 mg/m ³
Long-term - local effects, dermal	0,5 % in mixture
Long-term - local effects, inhalation	1,55 mg/m ³

PNEC (Water)

PNEC aqua (freshwater)	≈ 0,00021 mg/l
PNEC aqua (marine water)	0,000042 mg/l
PNEC aqua (intermittent, freshwater)	0,00026 mg/l

PNEC (Oral)

PNEC oral (secondary poisoning)	11,1 mg/kg food
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PNEC (STP)

PNEC sewage treatment plant	0,03 mg/l
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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

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

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. eye protection.

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. ISO 16321-1

8.2.2.2. Skin protection

Skin and body protection:

No special clothing/skin protection equipment is recommended under normal conditions of use. 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 ISO 374-1 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

8.2.3. Environmental exposure controls

Other information:

Do not eat, drink or smoke during use.

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Colour	: light yellow.
Odour	: Chlorine.
Odour threshold	: Not available
Melting point	: Not available
Freezing point	: Not available
Boiling point	: Not available
Flammability	: Non flammable.
Lower explosion limit	: Not available
Upper explosion limit	: Not available
Flash point	: Not specifically applicable to the product (as is)
Auto-ignition temperature	: Not available
Decomposition temperature	: Not available
pH	: 12,8 (20°C)
Viscosity, kinematic	: < 45,167 mm ² /s
Viscosity, dynamic	: < 50 mPa·s (20°C)
Solubility	: completely soluble.
Partition coefficient n-octanol/water (Log Kow)	: Not available
Vapour pressure	: Not available
Vapour pressure at 50°C	: Not available
Density	: 1,107 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

No additional information available

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

Highly reactive material. Contact with acids liberates toxic gas.

10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

10.5. Incompatible materials

Strong acids. Strong bases. Metals.

10.6. Hazardous decomposition products

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

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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

Water (INCI: AQUA) (7732-18-5)	
LD50 oral	> 90000 mg/kg bodyweight
LD50 dermal	> 90000 mg/kg bodyweight

Sodium hypochlorite solution (INCI: SODIUM HYPOCHLORITE) (7681-52-9)	
LD50 oral rat	1100 mg/kg
LD50 oral	8910 mg/kg bodyweight
LD50 dermal rat	> 2000 mg/kg
LD50 dermal rabbit	> 10000 mg/kg
LD50 dermal	> 20000 mg/kg bodyweight
LC50 Inhalation - Rat	> 10,5 mg/l (10,5 -->1h)
LC50 Inhalation - Rat (Dust/Mist)	> 10500 mg/l/4h

Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)	
LD50 oral rat	> 500 mg/kg (Rabbit)

Sodium chloride (INCI: SODIUM CHLORIDE) (7647-14-5)	
LD50 oral rat	3000 – 3350 mg/kg
LD50 oral	3000 mg/kg bodyweight
LD50 dermal	> 10000 mg/kg bodyweight
LC50 Inhalation - Rat (Dust/Mist)	> 42000 mg/l/4h

Skin corrosion/irritation : Causes skin irritation.
pH: 12,8 (20°C)

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

Sodium chloride (INCI: SODIUM CHLORIDE) (7647-14-5)	
pH	7,5

Serious eye damage/irritation : Causes serious eye irritation.
pH: 12,8 (20°C)

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

Sodium chloride (INCI: SODIUM CHLORIDE) (7647-14-5)	
pH	7,5

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

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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

Sodium hypochlorite solution (INCI: SODIUM HYPOCHLORITE) (7681-52-9)

STOT-single exposure	May cause respiratory irritation.
STOT-repeated exposure	: Not classified
Additional information	: Based on available data, the classification criteria are not met
Aspiration hazard	: Not classified
Additional information	: Based on available data, the classification criteria are not met

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Viscosity, kinematic	< 45,167 mm ² /s
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11.2. Information on other hazards

11.2.1. Endocrine disrupting properties

No additional information available

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.
Ecology - water	: Very toxic to aquatic life with long lasting effects.
Hazardous to the aquatic environment, short-term (acute)	: Very toxic to aquatic life.
Hazardous to the aquatic environment, long-term (chronic)	: Very toxic to aquatic life with long lasting effects.

Sodium hypochlorite solution (INCI: SODIUM HYPOCHLORITE) (7681-52-9)

LC50 - Fish [1]	0,01 – 0,1 mg/l (96h)
LC50 - Fish [2]	0,06 mg/l (96h, freshwater fish)
EC50 - Crustacea [1]	0,01 – 0,1 mg/l (48h)
EC50 - Crustacea [2]	0,141 mg/l (48h)
EC50 72h - Algae [1]	0,04 mg/l (72h, Scenedesmus subspicatus)
EC50 72h - Algae [2]	0,2 mg/l (Algae, EC50, 20 h)
NOEC (acute)	0,04 mg/l (28d, fresh water)
NOEC chronic fish	0,04 mg/l (28d, Menidia peninsulae, seawater)
NOEC chronic crustacea	0,007 mg/l (15d, Crassostrea virginica, seawater)

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

LC50 - Fish [1]	33 – 189 mg/l (96h)
LC50 - Fish [2]	189 (48h, Leuciscus idus, OECD 203) 125 mg/l (Gambusia affinis; 96 h) 145 mg/l (Poecilia reticulata; 24 h)

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Sodium hydroxide (INCI: SODIUM HYDROXIDE) (1310-73-2)	
LC50 - Other aquatic organisms [1]	45,5 mg/l (LC50, fish, Oncorhynchus mykiss)
EC50 - Crustacea [1]	33 – 450 (48h)
EC50 - Crustacea [2]	40,4 mg/l (48h, Ceriodaphnia sp.)
EC50 - Other aquatic organisms [1]	> 33 mg/l EC50 waterflea (48 h)

Sodium chloride (INCI: SODIUM CHLORIDE) (7647-14-5)	
LC50 - Fish [1]	> 10000 mg/l (96h)
LC50 - Fish [2]	5840 – 10610 mg/l (Min: 96h, Lepomis macrochirus) - (Max: 96h, Pimephales promelas, OECD 203)
EC50 - Crustacea [1]	> 3000 mg/l (48h)
EC50 - Crustacea [2]	1000 – 4136 mg/l (48h, daphnia)
EC50 - Other aquatic organisms [2]	2430 mg/l IC50 alga (72 h) mg/l
EC50 72h - Algae [1]	4800 mg/l (72h)
NOEC chronic fish	4000 mg/l (7d, Pimephales promelas)
NOEC chronic crustacea	314 mg/l (21d, Daphnia pulex)

12.2. Persistence and degradability

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Persistence and degradability	Not established.

12.3. Bioaccumulative potential

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Bioaccumulative potential	Not established.

Water (INCI: AQUA) (7732-18-5)	
Partition coefficient n-octanol/water (Log Kow)	-1,38

Sodium hypochlorite solution (INCI: SODIUM HYPOCHLORITE) (7681-52-9)	
Partition coefficient n-octanol/water (Log Kow)	-3,42

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

Sodium chloride (INCI: SODIUM CHLORIDE) (7647-14-5)	
Partition coefficient n-octanol/water (Log Kow)	-0,46 (≥ -3)

12.4. Mobility in soil

No additional information available

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.

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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. (Sodium hypochlorite solution(7681-52-9) Sodium hydroxide(1310-73-2)), 8, III, (E), ENVIRONMENTALLY HAZARDOUS	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S., 8, III, MARINE POLLUTANT/ENVIRONMENTALLY HAZARDOUS	UN 1719 Caustic alkali liquid, n.o.s., 8, III, ENVIRONMENTALLY HAZARDOUS	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S., 8, III, ENVIRONMENTALLY HAZARDOUS	UN 1719 CAUSTIC ALKALI LIQUID, N.O.S., 8, III, ENVIRONMENTALLY HAZARDOUS
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: Yes	Dangerous for the environment: Yes Marine pollutant: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes	Dangerous for the environment: Yes
No supplementary information available				

14.6. Special precautions for user

Overland transport

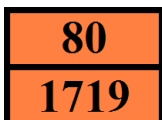
Classification code (ADR)	: C5
Special provisions (ADR)	: 274
Limited quantities (ADR)	: 5I
Excepted quantities (ADR)	: E1

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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) : SG22, SG35
MFAG-No : 154

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
ERG code (IATA) : 8L

Inland waterway transport

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

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

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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

Other information, restriction and prohibition regulations : Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products. Type of product (Biocide). Disinfectants and algaecides not intended for direct application to humans or animals. Registration-No. 14475 N (NL) / 1118B (BE).

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)

Biocide Regulation (528/2012)

Type of product (Biocide) : 2 - Disinfectants and algaecides not intended for direct application to humans or animals

Detergent Regulation (648/2004)

Labelling of contents

Component	%
chlorine-based bleaching agents, phosphonates	<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)

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15.1.2. National regulations

France

Occupational diseases	
Code	Description
RG 65	Eczematiform lesions of allergic mechanism
RG 78	Diseases caused by sodium chloride in salt mines and their dependencies

Germany

Water hazard class (WGK) : WGK 2, Significantly hazardous to water (Classification according to AwSV, Annex 1).
Hazardous Incident Ordinance (12. BImSchV) : Is not subject of the Hazardous Incident Ordinance (12. BImSchV)

Netherlands

ABM category : B(1) - highly toxic for aquatic organisms
SZW-lijst van kankerverwekkende stoffen : None of the components are listed
SZW-lijst van mutagene stoffen : None of the components are listed
SZW-lijst van reprotoxische stoffen – Borstvoeding : None of the components are listed
SZW-lijst van reprotoxische stoffen –
Vruchtbaarheid : None of the components are listed
SZW-lijst van reprotoxische stoffen – Ontwikkeling : None of the components are listed

Denmark

MAL code : 00-1 (Executive Order No. 301 from 1993)
Danish National Regulations : Young people below the age of 18 years are not allowed to use the product

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
	Safety Data Sheet	Modified	SDS EU format according to COMMISSION REGULATION (EU) 2020/878

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Abbreviations and acronyms:	
	ABM: Algemene Beoordelings Methodiek (NL) / ADR: Accord Européen relatif au transport international des marchandises dangereuses par route) / ALG: Allergen / AQTX: 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
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

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Abbreviations and acronyms:

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. Not classified (Oral)	Acute toxicity (oral) Not classified
Aquatic Acute 1	Hazardous to the aquatic environment – Acute Hazard, Category 1
Aquatic Chronic 1	Hazardous to the aquatic environment – Chronic Hazard, Category 1
EUH031	Contact with acids liberates toxic gas.
EUH206	Warning! Do not use together with other products. May release dangerous gases (chlorine).
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.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H335	May cause respiratory irritation.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
Met. Corr. 1	Corrosive to metals, 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 SE 3	Specific target organ toxicity – Single exposure, Category 3, Respiratory tract irritation

Full text of use descriptors

ERC8a	Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)
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Full text of use descriptors	
PC35	Washing and cleaning products
SU21	Consumer uses: Private households (= general public = consumers)

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.