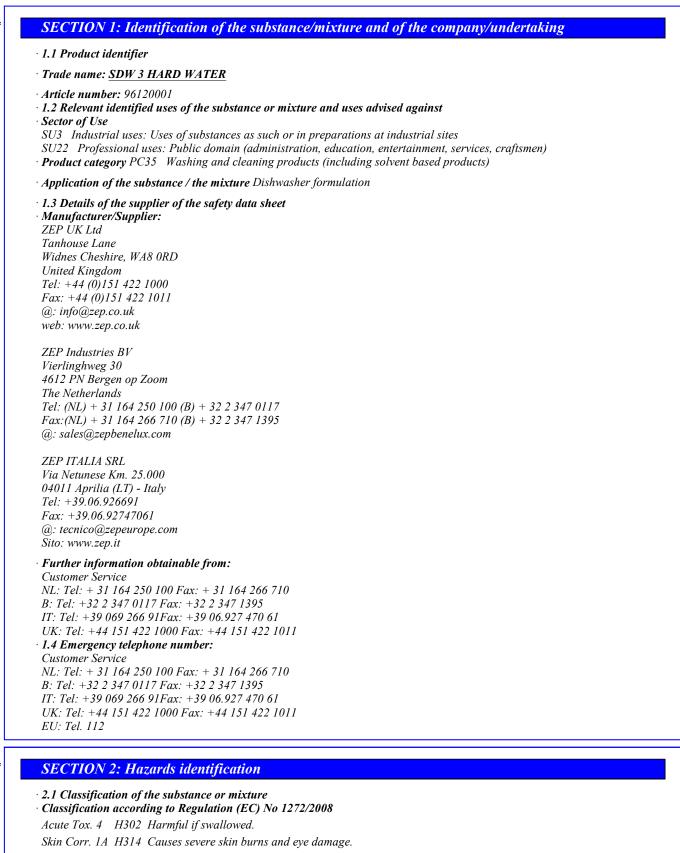
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Eye Dam. 1 H318 Causes serious eye damage.

STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure.

· 2.2 Label elements

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

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

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rade name: SDW 3 HARD WATER		
· Hazard pictograms		(Contd. of page 1)
$\land \land$		
	VV	
GHS05 GHS07 C	GHS08	
· Signal word Danger		
· Hazard-determining com		
tetrasodium ethylenediam		
Tetrasodium orthosilicate		
disodium metasilicate pen sodium hydroxide	lanyarate	
· Hazard statements		
H302 Harmful if swallowe	ed.	
H314 Causes severe skin l	burns and eye damage.	
	to organs through prolonged or repeated exposure.	
• Precautionary statements		
	eye protection / face protection.	
	/ALLOWED: rinse mouth. Do NOT induce vomiting. V SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with	water/shower
	EYES: Rinse cautiously with water for several minutes. Remove contact lenses, i	
	ontinue rinsing.	present and easy to
	diately call a POISON CENTER/doctor.	
	se of contents/container in accordance with local/regional/national/internationa	
	oduct does not contain any organic halogen compounds (AOX), nitrates, heavy n	netal compounds.
Results of PBT and vPvB	assessment	
• <i>PBT:</i> Not applicable. • <i>vPvB:</i> Not applicable.		
VFVD. Not applicable.		
SECTION 3: Compo	osition/information on ingredients	
• 3.2 Chemical characterist	ation: Mixtures ubstances listed below with nonhazardous additions.	
• Description. Mixture of st • Dangerous components:	Austances listed below with honnazaraous additions.	
CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate	25-50%

CAS: 64-02-8	tetrasodium ethylenediaminetetraacetate	25-50%
EINECS: 200-573-9	🚸 STOT RE 2, H373	
Reg.nr.: 01-2119486762-27-xxxx	🔄 Eye Dam. 1, H318	
	(i) Acute Tox. 4, H302; Acute Tox. 4, H332	
CAS: 13472-30-5	Tetrasodium orthosilicate	10-25%
EINECS: 236-741-3	😔 Skin Corr. 1A, H314	
	♦ STOT SE 3, H335	
CAS: 10213-79-3	disodium metasilicate pentahydrate	5-10%
EINECS: 229-912-9	♦ Met. Corr.1, H290; Skin Corr. 1B, H314	
Reg.nr.: 01-2119449811-37-xxxx	(1) Acute Tox. 4, H302; STOT SE 3, H335	
CAS: 1310-73-2	sodium hydroxide	1-2.5%
EINECS: 215-185-5	Wet. Corr.1, H290; Skin Corr. 1A, H314	
Reg.nr.: 01-2119457892-27-xxxx	Acute Tox. 4, H302; Acute Tox. 4, H312	
CAS: 68154-99-4	Alcohols, C8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether	1-2.5%
EC number: 627-098-3	📀 Eye Dam. 1, H318	
	() Acute Tox. 4, H312; Skin Irrit. 2, H315	
· Ingredients according to Deterge		
For the wording of the listed haza	rd phrases refer to section 16.	
EDTA and salts thereof		≥30%
Nonionic surfactants, Phosphonal	tes. Polycarboxylates	<5%

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SECTION 4: First aid measures

• 4.1 Description of first aid measures

- General information:
- Immediately remove any clothing soiled by the product.

Symptoms of poisoning may even occur after several hours; therefore medical observation for at least 48 hours after the accident.

- After inhalation: In case of unconsciousness place patient stably in side position for transportation.
- After skin contact:

Immediately wash with water and soap and rinse thoroughly. Immediately rinse with water.

Seek medical treatment.

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

Do not induce vomiting; call for medical help immediately.

Call for a doctor immediately.

Drink plenty of water and provide fresh air. Call for a doctor immediately.

• 4.2 Most important symptoms and effects, both acute and delayed No further relevant information available.

4.3 Indication of any immediate medical attention and special treatment needed No further relevant information available.

SECTION 5: Firefighting measures

5.1 Extinguishing media

- Suitable extinguishing agents: Use fire extinguishing methods suitable to surrounding conditions.
- 5.2 Special hazards arising from the substance or mixture No further relevant information available.
- 5.3 Advice for firefighters
- · Protective equipment: No special measures required.

SECTION 6: Accidental release measures

• 6.1 Personal precautions, protective equipment and emergency procedures Wear protective equipment. Keep unprotected persons away.

- · 6.2 Environmental precautions: Do not allow to enter sewers/ surface or ground water.
- 6.3 Methods and material for containment and cleaning up:

Use neutralising agent.

Dispose contaminated material as waste according to item 13.

Ensure adequate ventilation. 6.4 Reference to other sections

See Section 7 for information on safe handling.

See Section 8 for information on personal protection equipment.

See Section 13 for disposal information.

SECTION 7: Handling and storage

· 7.1 Precautions for safe handling

Thorough dedusting.

Store in cool, dry place in tightly closed receptacles.

Use only in well ventilated areas.

• Information about fire - and explosion protection: No special measures required.

- 7.2 Conditions for safe storage, including any incompatibilities
- Storage:
- **Requirements to be met by storerooms and receptacles:** No special requirements.
- Information about storage in one common storage facility: Do not store together with acids.
- Further information about storage conditions: Keep receptacle tightly sealed.
- · 7.3 Specific end use(s) No further relevant information available.

SECTION 8: Exposure controls/personal protection

• Additional information about design of technical facilities: No further data; see item 7.

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			(Contd. of page
	l parameters		
· Ingredient:	s with limit values that req	luire	monitoring at the workplace:
1310-73-2	sodium hydroxide (1-2.5%	6)	
WEL (Grea	at Britain) Short-term valu	ie: 2 i	mg/m ³
DNELS	·		
64-02-8 tet	trasodium ethylenediamin	etetra	nacetate
Oral	DNEL Long term-systemic	2	28 mg/kg human/day (consumer)
Inhalative	DNEL Acute-systemic mg/	/m3	1.7 mg/m3 (consumer)
			2.8 mg/m3 (worker)
1310-73-2	sodium hydroxide		
Inhalative	DNEL Long term local mg	g/m3	1 mg/m3 (consumer)
			1 mg/m3 (worker)
PNECs			
64-02-8 tet	trasodium ethylenediamin	etetra	nacetate
PNEC Fres	shwater mg/L	2.8 n	ng/L
PNEC Marinewater mg/L 0.28		0.28	mg/L
PNEC Intermittent release 1.6 (1.6 ((mg/L)
PNEC Soil		0.95	mg/Kg
PNEC Sew	rage treatment Plant mg/L	57 m	ng/L
Additional	information: The lists val	id du	ring the making were used as basis.

· 8.2 Exposure controls

· Personal protective equipment:

General protective and hygienic measures: Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing Wash hands before breaks and at the end of work. Store protective clothing separately. Avoid contact with the eyes. Avoid contact with the eyes and skin.

Respiratory protection:

In case of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contained respiratory protective device.

Protection of hands:



Protective gloves

Rubber gloves

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

Material of gloves

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application. Rubber gloves

Penetration time of glove material

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed. The determined penetration times according to EN 374 part III are not performed under practical conditions. Therefore a maximum wearing time, which corresponds to 50% of the penetration time, is recommended.

- · Not suitable are gloves made of the following materials: Strong material gloves
- Eye protection:



Tightly sealed goggles

· Body protection: Alkaline resistant protective clothing

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9.1 Information on basic physical and c	hemical properties
General Information	
Appearance:	C - 1: J
Form:	Solid White
Colour: Odour:	Characteristic
Odour: Odour threshold:	Not determined.
pH-value:	Not applicable.
Change in condition	
Melting point/freezing point:	Undetermined.
Initial boiling point and boiling range	: Undetermined.
Flash point:	Not applicable.
Flammability (solid, gas):	Not determined.
	Not applicable.
Decomposition temperature:	Not determined.
Auto-ignition temperature:	Product is not selfigniting.
Explosive properties:	Product does not present an explosion hazard.
	Not determined.
Explosion limits:	
Lower:	Not determined.
Upper:	Not determined.
Vapour pressure:	Not applicable.
Density at 20 °C:	$1.5 g/cm^3$
Relative density	Not determined.
Vapour density	Not applicable.
Evaporation rate	Not applicable.
Solubility in / Miscibility with	
water:	Insoluble.
Partition coefficient: n-octanol/water:	Not determined.
Viscosity:	
Dynamic:	Not applicable.
Kinematic:	Not applicable.
Solvent content:	
Sovem coment. Swiss VOC:	0.00 %
Solids content:	44.0 %
9.2 Other information	No further relevant information available.

SECTION 10: Stability and reactivity

· 10.1 Reactivity No further relevant information available.

10.2 Chemical stability

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

SECTION 11: Toxicological information

- · 11.1 Information on toxicological effects
- Acute toxicity

Harmful if swallowed.

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LD/LC50	values relevan	t for classification:	ontd. of pag
		ylenediaminetetraacetate	
Oral	LD50	1,560 mg/kg	
Inhalative	LC50 / 4 h	>1,000 mg/ltr	
		2 mg/ltr (Rat)	
	LC50 / 96 h	>1,000 mg/ltr (Lepomis Macrochirus (Bluegill Sunfish))	
		33-189 mg/ltr (fish)	
	EC 50 / 48 h	140 mg/ltr (Daphnia magna (water flea))	
		>300 (Desmodesmus subspicatus) (mg/L)	
10213-79-	3 disodium m	etasilicate pentahydrate	
Oral	LD50	>1,000 mg/kg (Rat)	
	LC50 / 96 h	>200 mg/ltr (Daphnia magna (water flea))	
1310-73-2	sodium hydro	ixide	
Oral	LD50	2,000 mg/kg (Rat)	
Dermal	LD50	1,350 mg/kg (Rabbit)	
	LC50 / 96 h	125 mg/ltr (Gambusia affinis)	
68154-99-	4 Alcohols, C	8-10, ethers with polyethylene-polypropylene glycol monobenzyl ether	
Oral	LD50	2,414 mg/kg (Rat)	
Dermal	LD50	2,000 mg/kg (Rabbit)	
Inhalative	LC50/ 8 h	>7.1 mg/m3 (-)	
Skin corro Causes set Serious ey Causes set Respirator CMR effe Germ cell Carcinoge Reproduct STOT-sin STOT-rep May cause	e damage/irrin rious eye dama ry or skin sens. cts (carcinogen mutagenicity micity Based o tive toxicity Ba gle exposure B gated exposure e damage to or	s and eye damage. tation Ige. itisation Based on available data, the classification criteria are not met. nity, mutagenicity and toxicity for reproduction) Based on available data, the classification criteria are not met. In available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met. Based on available data, the classification criteria are not met.	
12.1 Toxic Aquatic to 12.2 Persi Other info	city exicity: No furt stence and deg ormation: The	ogical information her relevant information available. gradability No further relevant information available. product is biodegradable. otential No further relevant information available.	

- Additional ecological information:
- · General notes:
- Must not reach sewage water or drainage ditch undiluted or unneutralised.

In accordance with the requirements of the RVO in the Act on Detergents and Cleansing Agents, tensides are biodegradable up to at least 90 %.

- 12.5 Results of PBT and vPvB assessment PBT: Not applicable. vPvB: Not applicable.

• 12.6 Other adverse effects No further relevant information available.

SECTION 13: Disposal considerations

· 13.1 Waste treatment methods

· Recommendation Disposal must be made according to official regulations

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· Uncleaned packaging:

· Recommendation: Disposal in accordance with administrative provisions

14.1 UN-Number ADR, IMDG, IATA	UN3262
14.2 UN proper shipping name ADR	3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, DISODIUM TRIOXOSILICATE)
IMDG, IATA	CORROSIVE SOLID, BASIC, INORGANIC, N.O.S. (SODIUM HYDROXIDE, DISODIUM TRIOXOSILICATE)
14.3 Transport hazard class(es)	
ADR	
Class	8 (C6) Corrosive substances.
Label	8
Class Label	8 Corrosive substances. 8
14.4 Packing group ADR, IMDG, IATA	III
14.5 Environmental hazards:	Not applicable.
14.6 Special precautions for user	Warning: Corrosive substances.
Danger code (Kemler):	8
EMS Number:	8 Alkalis
Segregation groups Stowage Category	Aikaiis B
Segregation Code	SG35 Stow "separated from" acids.
14.7 Transport in bulk according to Annex II o the IBC Code	
Transport/Additional information:	**
ADR	
Limited quantities (LQ)	5
Excepted quantities (EQ)	Code: E
Transport category	3
Tunnel restriction code	E
	-
Limited quantities (LQ)	5 Code: E
Excepted quantities (EQ)	
UN "Model Regulation":	UN 3262 CORROSIVE SOLID, BASIC, INORGANIC, N.O.S.

SECTION 15: Regulatory information

• 15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Reg. (EC) n. 1272/2008 - CLP; Reg. (EC) n. 1907/2006 – Reach; Reg. (EC) n. 2015/830 annex II of REACH;

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Reg. (EC) n. 648/04 (Detergents); Reg. (EC) n. 528/12 (Biocides BPR); Reg. (EC) n. 1223/2009 (Cosmetics); Dir. 06/08 ADR - RID - IMDG - IATA; Dir. 47/08 (Aerosols); Dir. 12/18 (Seveso III); Dir. 2008/98/CE and Reg. (EC) n.1357/2014 (Waste management)

· Directive 2012/18/EU

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

· National regulations:

- · Waterhazard class: Water hazard class 2 (Self-assessment): hazardous for water.
- · 15.2 Chemical safety assessment: A Chemical Safety Assessment has been carried out.

SECTION 16: Other information

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

· Relevant phrases

H290 May be corrosive to metals. H302 Harmful if swallowed. H312 Harmful in contact with skin. H314 Causes severe skin burns and eye damage. H315 Causes skin irritation. H318 Causes serious eye damage. H332 Harmful if inhaled. H335 May cause respiratory irritation. H373 May cause damage to organs through prolonged or repeated exposure. · Department issuing SDS: Customer Service NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710 B: Tel: +32 2 347 0117 Fax: +32 2 347 1395 IT: Tel: +39 069 266 91Fax: +39 06.927 470 61 UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011 Contact: **Customer Service** NL: Tel: + 31 164 250 100 Fax: + 31 164 266 710 B: Tel: +32 2 347 0117 Fax: +32 2 347 1395 IT: Tel: +39 069 266 91Fax: +39 06.927 470 61 UK: Tel: +44 151 422 1000 Fax: +44 151 422 1011 Abbreviations and acronyms: ADR: Accord européen sur le transport des marchandises dangereuses par Route (European Agreement concerning the International Carriage of Dangerous Goods by Road) IMDG: International Maritime Code for Dangerous Goods IATA: International Air Transport Association GHS: Globally Harmonised System of Classification and Labelling of Chemicals EINECS: European Inventory of Existing Commercial Chemical Substances ELINCS: European List of Notified Chemical Substances CAS: Chemical Abstracts Service (division of the American Chemical Society) DNEL: Derived No-Effect Level (REACH) PNEC: Predicted No-Effect Concentration (REACH) LC50: Lethal concentration, 50 percent LD50: Lethal dose, 50 percent PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative Met. Corr.1: Corrosive to metals - Category 1 Acute Tox. 4: Acute toxicity – Category 4 Skin Corr. 1A: Skin corrosion/irritation - Category 1A Skin Corr. 1B: Skin corrosion/irritation - Category 1B Skin Irrit. 2: Skin corrosion/irritation – Category 2 Eye Dam. 1: Serious eye damage/eye irritation – Category 1 STOT SE 3: Specific target organ toxicity (single exposure) – Category 3 STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2 • * Data compared to the previous version altered.

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Annex	x: Exposure scenario
Short ti	itle of the exposure scenario
For the	finished product.
	HARD WATER
Sector e	
	ndustrial uses: Uses of substances as such or in preparations at industrial sites
SU22	Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
	t category PC35 Washing and cleaning products (including solvent based products)
	tion of the activities / processes covered in the Exposure Scenario See section 1 of the annex to the Safety Data Sheet
	ions of use
	on and frequency 5 workdays/week.
	<i>Il parameters</i>
	ul state Fluid
	tration of the substance in the mixture The substance is main component.
	mount per time or activity According to directions for use.
	perational conditions
	perational conditions affecting environmental exposure No special measures required.
	perational conditions affecting worker exposure
	ontact with eyes.
	ontact with the skin.
Do not	breathe gas/vapour/aerosol.
	perational conditions affecting consumer exposure No special measures required.
	perational conditions affecting consumer exposure during the use of the product Not applicable.
	anagement measures
Worker	· protection
	sational protective measures No special measures required.
	cal protective measures Ensure that suitable extractors are available on processing machines
	al protective measures
Do not	inhale gases / fumes / aerosols.
Avoid c	contact with the skin.
Avoid c	contact with the eyes.
	sealed goggles
In case	of brief exposure or low pollution use respiratory filter device. In case of intensive or longer exposure use self-contain
respirat	tory protective device.
Protect	ive gloves
Rubber	gloves
Selectio	n of the glove material on consideration of the penetration times, rates of diffusion and the degradation
Do not	inhale dust / smoke / mist.
Measur	res for consumer protection Ensure adequate labelling.
	nmental protection measures
Water (Generally, prior to the introduction of wastewater into wastewater treatment plants a neutralisation is required.
	al measures Ensure that waste is collected and contained.
	al procedures Must not be disposed together with household garbage. Do not allow product to reach sewage system.
Waste t	type Partially emptied and uncleaned packaging
Exposu	are estimation
Consun	ner Not relevant for this Exposure Scenario.
	nce for downstream users No further relevant information available.