Safety data sheet
according to Regulation (EC) No 1907/2006, Annex II

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

1.1 Product identifier

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1.2 Relevant identified uses of the substance or mixture and uses advised against
Relevant identified uses of the substance or mixture:
Cleaner
Only for industrial or commercial use.
Uses advised against:
No information available at present.

1.3 Details of the supplier of the safety data sheet
DR.SCHNELL GmbH & Co. KGaA
Taunusstr. 19
80807 München
Tel.: 089/350608-0
Fax: 089/350608-47
Email: info@dr-schnell.com

Qualified person's e-mail address: info@chemical-check.de, k.schnurbusch@chemical-check.de Please DO NOT use for requesting Safety Data Sheets.

1.4 Emergency telephone number
Emergency information services / official advisory body:

Telephone number of the company in case of emergencies:
+49 (0) 700 / 24 112 112 (DSC)

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture
Classification according to Regulation (EC) 1272/2008 (CLP)

Hazard class	Hazard category	Hazard statement
Skin Corr.	1A	H314-Causes severe skin burns and eye damage.
Eye Dam.	1	H318-Causes serious eye damage.
Met. Corr.	1	H290-May be corrosive to metals.

2.2 Label elements
Labeling according to Regulation (EC) 1272/2008 (CLP)

Danger

H314-Causes severe skin burns and eye damage. H290-May be corrosive to metals.

P260-Do not breathe dust. P280-Wear protective gloves / protective clothing / eye protection / face protection. P301+P330+P331-IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. P303+P361+P353-IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. 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 / doctor.

Sodium hydroxide
Disodium metasilicate, pentahydrate
(1-hydroxyethylidene)bisphosphonic acid, sodium salt
Disodium carbonate, compound with hydrogen peroxide (2:3)

2.3 Other hazards

The mixture does not contain any vPvB substance (vPvB = very persistent, very bioaccumulative) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
The mixture does not contain any PBT substance (PBT = persistent, bioaccumulative, toxic) or is not included under XIII of the regulation (EC) 1907/2006 (< 0,1 %).
High pH-value can be harmful to water.

SECTION 3: Composition/information on ingredients

3.1 Substance

n.a.

3.2 Mixture

Sodium hydroxide	
Registration number (REACH)	01-2119457892-27-XXXX
Index	011-002-00-6
EINECS, ELINCS, NLP	215-185-5
CAS	1310-73-2
content %	5-<50
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Corr. 1A, H314 Met. Corr. 1, H290 Eye Dam. 1, H318

Disodium metasilicate, pentahydrate	
Registration number (REACH)	---
Index	014-010-00-8
EINECS, ELINCS, NLP	229-912-9
CAS	10213-79-3
content %	5-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Skin Corr. 1B, H314 STOT SE 3, H335 Eye Dam. 1, H318

(1-hydroxyethylidene)bisphosphonic acid, sodium salt	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	249-559-4
CAS	29329-71-3
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Acute Tox. 4, H302 Eye Irrit. 2, H319

Disodium carbonate, compound with hydrogen peroxide (2:3)	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	239-707-6
CAS	15630-89-4
content %	1-<10
Classification according to Regulation (EC) 1272/2008 (CLP)	Ox. Sol. 2, H272 Acute Tox. 4, H302 Eye Dam. 1, H318

Fatty alcohol alkoxylates	
Registration number (REACH)	---
Index	---
EINECS, ELINCS, NLP	---
CAS	---
content %	1-<5
Classification according to Regulation (EC) 1272/2008 (CLP)	Eye Irrit. 2, H319

Impurities, test data and additional information may have been taken into account in classifying and labelling the product.
For the text of the H-phrases and classification codes (GHS/CLP), see Section 16.
The substances named in this section are given with their actual, appropriate classification!
For substances that are listed in appendix VI, table 3.1 of the regulation (EC) no. 1272/2008 (CLP regulation) this means that all notes that may be given here for the named classification have been taken into account.

SECTION 4: First aid measures

4.1 Description of first aid measures

First-aiders should ensure they are protected!
Never pour anything into the mouth of an unconscious person!

Inhalation

Remove person from danger area.
Supply person with fresh air and consult doctor according to symptoms.
Keep Data Sheet available.
If the person is unconscious, place in a stable side position and consult a doctor.

Skin contact

Wash thoroughly using copious water - remove contaminated clothing immediately. If skin irritation occurs (redness etc.), consult doctor.

Eye contact

Remove contact lenses.
Wash thoroughly for several minutes using copious water - call doctor immediately, have Data Sheet available.
Protect uninjured eye.
Consult medical specialist.

Ingestion

Typically no exposure pathway.
Rinse the mouth thoroughly with water.
Do not induce vomiting - give copious water to drink. Consult doctor immediately.

4.2 Most important symptoms and effects, both acute and delayed

If applicable delayed symptoms and effects can be found in section 11 and the absorption route in section 4.1.

4.3 Indication of any immediate medical attention and special treatment needed

Eye wash

SECTION 5: Firefighting measures

5.1 Extinguishing media
Suitable extinguishing media
Adapt to the nature and extent of fire.
CO2
Water jet spray
Unsuitable extinguishing media
High volume water jet
5.2 Special hazards arising from the substance or mixture
In case of fire the following can develop:
Sodium oxide
Oxides of phosphorus
Oxides of nitrogen
Hydrogen chloride
Corrosive vapours
Corrosive gases
Ammonia vapour
Oxides of carbon
Metal oxides
5.3 Advice for firefighters
In case of fire and/or explosion do not breathe fumes.
Protective respirator with independent air supply.
Alkali-resistant protection clothing.
Full protection
Dispose of contaminated extinction water according to official regulations.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures
Avoid build up of dust.
Ensure sufficient ventilation.
Avoid inhalation, and contact with eyes or skin.
If applicable, caution - risk of slipping.
6.2 Environmental precautions
If leakage occurs, dam up.
Resolve leaks if this possible without risk.
Do not pour down the drain undiluted.
Prevent surface and ground-water infiltration, as well as ground penetration.
If accidental entry into drainage system occurs, inform responsible authorities.
6.3 Methods and material for containment and cleaning up
Pick up mechanically and dispose of according to Section 13.
As a precaution, douse dust with water.
Flush residue using copious water.
6.4 Reference to other sections
For personal protective equipment see Section 8 and for disposal instructions see Section 13.

SECTION 7: Handling and storage

In addition to information given in this section, relevant information can also be found in section 8 and 6.1.
7.1 Precautions for safe handling
7.1.1 General recommendations
Ensure sufficient ventilation.
Avoid build up of dust.
Avoid inhalation, and contact with eyes or skin.
Eating, drinking, smoking, as well as food-storage, is prohibited in work-room.

There should be an eyewash station and safety shower located near the area of use.
Observe directions on label and instructions for use.
Use working methods according to operating instructions.

7.1.2 Notes on general hygiene measures at the workplace

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

7.2 Conditions for safe storage, including any incompatibilities

Keep out of access to unauthorised individuals.
Not to be stored in gangways or stair wells.
Store product closed and only in original packing.
Do not use alkali sensitive materials.
Alkali-resistant floor necessary.
Store separately from acids.
Protect against moisture and store closed.
Store in a well ventilated place.

7.3 Specific end use(s)

Dishwasher cleaner

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

GB	Chemical Name	Sodium hydroxide	Content %:5-<50
WEL-TWA: ---	WEL-STEL: 2 mg/m3	---	
Monitoring procedures:	- ISO 15202 (Determination of metals and metalloids in airborne particulate matter by inductive coupled plasma emission spectrometry) - 2000(Part 1), 2001(Part 2), 2004 (Part 3) - DFG (E), DFG (D) (Alkali metal hydroxides and alkali earth hydroxides) - 2001, 1998 - EU project BC/CEN/ENTR/000/2002-16 card 45-2 (2004) - OSHA ID-121 (Metal and metalloid particulates in workplace atmospheres) - 2002 - EU project BC/CEN/ENTR/000/2002-16 card 45-5 (2004) - NIOSH 7401 (Alkaline dusts) - 1994		
BMGV: ---	Other information: ---		

GB	Chemical Name	general dust limit	Content %:
WEL-TWA: 10 mg/m3 (inhal. dust), 4 mg/m3 (respir. dust)	WEL-STEL: ---	---	
Monitoring procedures:	---		
BMGV: ---	Other information: ---		

Sodium hydroxide

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
Consumer	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	
Workers / employees	Human - inhalation	Long term, local effects	DNEL	1	mg/m3	

(1-hydroxyethylidene)bisphosphonic acid, sodium salt

Area of application	Exposure route / Environmental compartment	Effect on health	Descriptor	Value	Unit	Note
	Environment - freshwater		PNEC	0,136	mg/l	
	Environment - marine		PNEC	0,0136	mg/l	

	Environment - sediment, freshwater		PNEC	59	mg/kg	
	Environment - sediment, marine		PNEC	5,9	mg/kg	
	Environment - soil		PNEC	96	mg/kg	
	Environment - sewage treatment plant		PNEC	20	mg/l	
	Environment - oral (animal feed)		PNEC	12	mg/kg	
Consumer	Human - oral	Long term	DNEL	6,5	mg/kg bw/d	
Workers / employees	Human - oral	Long term	DNEL	13	mg/kg bw/d	

GB WEL-TWA = Workplace Exposure Limit - Long-term exposure limit (8-hour TWA (= time weighted average) reference period) EH40. AGW = "Arbeitsplatzgrenzwert" (workplace limit value, Germany).
(8) = Inhalable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (9) = Respirable fraction (Directive 2017/164/EU, Directive 2004/37/CE). (11) = Inhalable fraction (Directive 2004/37/CE). (12) = Inhalable fraction. Respirable fraction in those Member States that implement, on the date of the entry into force of this Directive, a biomonitoring system with a biological limit value not exceeding 0,002 mg Cd/g creatinine in urine (Directive 2004/37/CE). | WEL-STEL = Workplace Exposure Limit - Short-term exposure limit (15-minute reference period).
(8) = Inhalable fraction (2017/164/EU, 2017/2398/EU). (9) = Respirable fraction (2017/164/EU, 2017/2398/EU). (10) = Short-term exposure limit value in relation to a reference period of 1 minute (2017/164/EU). | BMGV = Biological monitoring guidance value EH40. BGW = "Biologischer Grenzwert" (biological limit value, Germany) | Other information: Sen = Capable of causing occupational asthma. Sk = Can be absorbed through skin. Carc = Capable of causing cancer and/or heritable genetic damage.
** = The exposure limit for this substance is repealed through the TRGS 900 (Germany) of January 2006 with the goal of revision.
(13) = The substance can cause sensitisation of the skin and of the respiratory tract (Directive 2004/37/CE), (14) = The substance can cause sensitisation of the skin (Directive 2004/37/CE).

8.2 Exposure controls
8.2.1 Appropriate engineering controls

Ensure good ventilation. This can be achieved by local suction or general air extraction.
If this is insufficient to maintain the concentration under the WEL or AGW values, suitable breathing protection should be worn.
Applies only if maximum permissible exposure values are listed here.
Suitable assessment methods for reviewing the effectiveness of protection measures adopted include metrological and non-metrological investigative techniques.
These are specified by e.g. BS EN 14042.
BS EN 14042 "Workplace atmospheres. Guide for the application and use of procedures for the assessment of exposure to chemical and biological agents".

8.2.2 Individual protection measures, such as personal protective equipment

General hygiene measures for the handling of chemicals are applicable.
Wash hands before breaks and at end of work.
Keep away from food, drink and animal feedingstuffs.
Remove contaminated clothing and protective equipment before entering areas in which food is consumed.

Eye/face protection:
Tight fitting protective goggles with side protection (EN 166).
If applicable
Face protection (EN 166).

Skin protection - Hand protection:
Use alkali resistant protective gloves (EN 374).
If applicable
Protective gloves in butyl rubber (EN 374).
Safety gloves made of natural rubber latex (EN 374).
Protective nitrile gloves (EN 374).
Minimum layer thickness in mm:
0,5
Permeation time (penetration time) in minutes:

120
The breakthrough times determined in accordance with EN 16523-1 were not obtained under practical conditions.
The recommended maximum wearing time is 50% of breakthrough time.
Protective hand cream recommended.

Skin protection - Other:
Alkali-resistant protection clothing (EN 13034)
According to operation.
Apron
Boots (EN ISO 20347)

Respiratory protection:
If the general dust-limit is exceeded, breathing masks with fine-dust filters are necessary (EN 143), code colour white.
If applicable, filter P2 (EN 143), code colour white
Breathing mask with fine dust filter necessary (EN 143), code colour white.
Observe wearing time limitations for respiratory protection equipment.

Thermal hazards:
If applicable, these are included in the individual protective measures (eye/face protection, skin protection, respiratory protection).

Additional information on hand protection - No tests have been performed.
In the case of mixtures, the selection has been made according to the knowledge available and the information about the contents.
Selection of materials derived from glove manufacturer's indications.
Final selection of glove material must be made taking the breakthrough times, permeation rates and degradation into account.
Selection of a suitable glove depends not only on the material but also on other quality characteristics and varies from manufacturer to manufacturer.
In the case of mixtures, the resistance of glove materials cannot be predicted and must therefore be tested before use.
The exact breakthrough time of the glove material can be requested from the protective glove manufacturer and must be observed.

8.2.3 Environmental exposure controls
No information available at present.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state:	Solid, powder
Colour:	White
Odour:	Characteristic
Odour threshold:	Not determined
pH-value:	13,0 (1 %)
Melting point/freezing point:	Not determined
Initial boiling point and boiling range:	Not determined
Flash point:	n.a.
Evaporation rate:	Not determined
Flammability (solid, gas):	Not determined
Lower explosive limit:	Not determined
Upper explosive limit:	Not determined
Vapour pressure:	Not determined
Vapour density (air = 1):	Not determined
Density:	0,88 g/ml
Bulk density:	Not determined
Solubility(ies):	Not determined
Water solubility:	Not determined
Partition coefficient (n-octanol/water):	Not determined
Auto-ignition temperature:	Not determined
Decomposition temperature:	Not determined
Viscosity:	n.a.
Explosive properties:	Product is not explosive. Creation of explosive dust/air mixtures possible.
Oxidising properties:	No

9.2 Other information

Miscibility:	Not determined
Fat solubility / solvent:	Not determined
Conductivity:	Not determined
Surface tension:	Not determined
Solvents content:	Not determined

SECTION 10: Stability and reactivity

10.1 Reactivity
See also Subsection 10.2 to 10.6.
The product has not been tested.

10.2 Chemical stability
Stable with proper storage and handling.

10.3 Possibility of hazardous reactions
Contact with strong acids leads to strong exothermic reaction.
Avoid contact with metals.
Metals - (development of hydrogen gas possible).

10.4 Conditions to avoid
Protect from humidity.

10.5 Incompatible materials
See also section 7.
Contact with strong acids leads to strong exothermic reaction.
Avoid contact with alkali sensitive materials.
Metals
Avoid contact with other chemicals.
Avoid contact with oxidizing agents.

10.6 Hazardous decomposition products
See also section 5.2

SECTION 11: Toxicological information

11.1 Information on toxicological effects
Possibly more information on health effects, see Section 2.1 (classification).

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Toxicity / effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Acute toxicity, by oral route:	ATE	>2000	mg/kg			calculated value
Acute toxicity, by dermal route:						n.d.a.
Acute toxicity, by inhalation:						n.d.a.
Skin corrosion/irritation:						n.d.a.
Serious eye damage/irritation:						n.d.a.
Respiratory or skin sensitisation:						n.d.a.
Germ cell mutagenicity:						n.d.a.
Carcinogenicity:						n.d.a.
Reproductive toxicity:						n.d.a.
Specific target organ toxicity - single exposure (STOT-SE):						n.d.a.
Specific target organ toxicity - repeated exposure (STOT-RE):						n.d.a.
Aspiration hazard:						n.d.a.
Symptoms:						n.d.a.

Sodium hydroxide						
Toxicity / effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**

Acute toxicity, by dermal route:	LD50	>2500	mg/kg	Rabbit	Regulation (EC) 440/2008 B.3 (ACUTE TOXICITY (DERMAL)	
Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Eye Dam. 1
Respiratory or skin sensitisation:				Human being	(Patch-Test)	Not sensitizising
Germ cell mutagenicity:				Salmonella typhimurium	OECD 471 (Bacterial Reverse Mutation Test)	Negative

Disodium metasilicate, pentahydrate						
Toxicity / effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Symptoms:						mucous membrane irritation

(1-hydroxyethylidene)bisphosphonic acid, sodium salt						
Toxicity / effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Acute toxicity, by oral route:	LD50	940	mg/kg	Rat		
Acute toxicity, by dermal route:	LD50	>7940	mg/kg	Rabbit		
Skin corrosion/irritation:						Not irritant
Serious eye damage/irritation:				Rabbit		Irritant
Respiratory or skin sensitisation:						Negative
Germ cell mutagenicity:					in vitro	Negative
Germ cell mutagenicity:					in vivo	Negative
Carcinogenicity:	NOAEL	>384	mg/kg bw/d	Rat	OECD 453 (Combined Chronic Toxicity/Carcinogenicity Studies)	
Reproductive toxicity:	NOAEL	>=447	mg/kg bw/d	Rat		
Specific target organ toxicity - single exposure (STOT-SE):	NOAEL	>=1724	mg/kg	Rat		

Disodium carbonate, compound with hydrogen peroxide (2:3)						
Toxicity / effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Acute toxicity, by oral route:	LD50	1034	mg/kg	Rat		References
Acute toxicity, by dermal route:	LD50	>2000	mg/kg	Rabbit	OECD 402 (Acute Dermal Toxicity)	
Serious eye damage/irritation:		>=25	%			Eye Dam. 1
Serious eye damage/irritation:		>=7,5	%			Eye Irrit. 2
Respiratory or skin sensitisation:				Guinea pig	OECD 406 (Skin Sensitisation)	Not sensitizising
Symptoms:						mucous membrane irritation

Fatty alcohol alkoxylates						
Toxicity / effect	**Endpoint**	**Value**	**Unit**	**Organism**	**Test method**	**Notes**
Acute toxicity, by oral route:	LD50	>2000	mg/kg	Rat	OECD 423 (Acute Oral Toxicity - Acute Toxic Class Method)	Analogous conclusion
Skin corrosion/irritation:						Not irritant

Serious eye damage/irritation:				Rabbit	OECD 405 (Acute Eye Irritation/Corrosion)	Analogous conclusion, Irritant

SECTION 12: Ecological information

Possibly more information on environmental effects, see Section 2.1 (classification).

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Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:							n.d.a.
12.1. Toxicity to daphnia:							n.d.a.
12.1. Toxicity to algae:							n.d.a.
12.2. Persistence and degradability:							The surfactant(s) contained in this mixture complies(compl y) 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.
12.3. Bioaccumulative potential:							n.d.a.
12.4. Mobility in soil:							n.d.a.
12.5. Results of PBT and vPvB assessment							n.d.a.
12.6. Other adverse effects:							n.d.a.
Other information:							DOC-elimination degree(complexing organic substance)>= 80%/28d: No

Disodium metasilicate, pentahydrate

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to fish:	LC50	96h	210	mg/l	Brachydanio rerio		

12.1. Toxicity to daphnia:	EC50	48h	4857	mg/l	Daphnia magna		
12.2. Persistence and degradability:							Not relevant for inorganic substances.
12.3. Bioaccumulative potential:							No
Toxicity to bacteria:	EC0	48h	>1000	mg/l	Pseudomonas putida	OECD 209 (Activated Sludge, Respiration Inhibition Test (Carbon and Ammonium Oxidation))	

(1-hydroxyethylidene)bisphosphonic acid, sodium salt

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to algae:	EC50	96h	>960	mg/l	Selenastrum capricornutum		
12.1. Toxicity to fish:	LC50	96h	368	mg/l	Oncorhynchus mykiss		
12.1. Toxicity to daphnia:	EC50	48h	527	mg/l	Daphnia magna		
12.2. Persistence and degradability:		28d	33	%		OECD 302 B (Inherent Biodegradability - Zahn-Wellens/EMPA Test)	Not readily biodegradable
12.3. Bioaccumulative potential:	BCF		<2		Cyprinus caprio		
12.5. Results of PBT and vPvB assessment							No PBT substance, No vPvB substance
Other information:	BOD		15,1	%			
Other information:	COD		66	%			

Disodium carbonate, compound with hydrogen peroxide (2:3)

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.3. Bioaccumulative potential:							No

Fatty alcohol alkoxylates

Toxicity / effect	Endpoint	Time	Value	Unit	Organism	Test method	Notes
12.1. Toxicity to daphnia:	NOEC/NOEL	21d	>1	mg/l	Daphnia magna	OECD 211 (Daphnia magna Reproduction Test)	
12.1. Toxicity to algae:	EC50	72h	>100	mg/l	Scenedesmus subspicatus	OECD 201 (Alga, Growth Inhibition Test)	
12.2. Persistence and degradability:		28d	>60	%		OECD 301 B (Ready Biodegradability - Co2 Evolution Test)	Readily biodegradable

SECTION 13: Disposal considerations

Safety data sheet according to Regulation (EC) No 1907/2006, Annex II
Revision date / version: 25.02.2020 / 0003
Replacing version dated / version: 22.02.2019 / 0002
Valid from: 25.02.2020
PDF print date: 25.02.2020
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13.1 Waste treatment methods

For the substance / mixture / residual amounts

EC disposal code no.:
The waste codes are recommendations based on the scheduled use of this product.
Owing to the user's specific conditions for use and disposal, other waste codes may be allocated under certain circumstances. (2014/955/EU)
20 01 29 detergents containing hazardous substances
06 02 05 other bases
Recommendation:
Sewage disposal shall be discouraged.
Pay attention to local and national official regulations.
Neutralisation possible by an expert
E.g. suitable incineration plant.
E.g. dispose at suitable refuse site.

For contaminated packing material

Pay attention to local and national official regulations.
Empty container completely.
Uncontaminated packaging can be recycled.
Dispose of packaging that cannot be cleaned in the same manner as the substance.

SECTION 14: Transport information

General statements

14.1. UN number: 1759

Transport by road/by rail (ADR/RID)

14.2. UN proper shipping name:
UN 1759 CORROSIVE SOLID, N.O.S. (SODIUM HYDROXIDE,DISODIUM METASILICATE)

14.3. Transport hazard class(es): 8
14.4. Packing group: II
Classification code: C10
LQ: 1 kg
Transport category: 2
14.5. Environmental hazards: Not applicable
Tunnel restriction code: E

Transport by sea (IMDG-code)

14.2. UN proper shipping name:
CORROSIVE SOLID, N.O.S. (SODIUM HYDROXIDE,DISODIUM METASILICATE)

14.3. Transport hazard class(es): 8
14.4. Packing group: II
EmS: F-A, S-B
Marine Pollutant: n.a
14.5. Environmental hazards: Not applicable

Transport by air (IATA)

14.2. UN proper shipping name:
Corrosive solid, n.o.s. (SODIUM HYDROXIDE,DISODIUM METASILICATE)

14.3. Transport hazard class(es): 8
14.4. Packing group: II
14.5. Environmental hazards: Not applicable

14.6. Special precautions for user

Persons employed in transporting dangerous goods must be trained.
All persons involved in transporting must observe safety regulations.
Precautions must be taken to prevent damage.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Freighted as packaged goods rather than in bulk, therefore not applicable.
Minimum amount regulations have not been taken into account.
Danger code and packing code on request.
Comply with special provisions.

SECTION 15: Regulatory information

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

Observe restrictions:
Comply with trade association/occupational health regulations.

Directive 2010/75/EU (VOC): 0 %

REGULATION (EC) No 648/2004
15 % or over but less than 30 %
phosphates
5 % or over but less than 15 %
phosphonates
oxygen-based bleaching agents
less than 5 %
polycarboxylates

National rules/regulation for the compliance with maximum quantities with regard to phosphates and or phosphorous compounds must be observed and complied with.

15.2 Chemical safety assessment
A chemical safety assessment is not provided for mixtures.

SECTION 16: Other information

Revised sections: 2
Employee training in handling dangerous goods is required.
These details refer to the product as it is delivered.
Employee instruction/training in handling hazardous materials is required.

Classification and processes used to derive the classification of the mixture in accordance with the ordinance (EG) 1272/2008 (CLP):

Classification in accordance with regulation (EC) No. 1272/2008 (CLP)	Evaluation method used
Skin Corr. 1A, H314	Classification according to calculation procedure.
Eye Dam. 1, H318	Classification according to calculation procedure.
Met. Corr. 1, H290	Classification based on test data.

The following phrases represent the posted Hazard Class and Risk Category Code (GHS/CLP) of the product and the constituents (specified in Section 2 and 3).
H314 Causes severe skin burns and eye damage.
H290 May be corrosive to metals.
H302 Harmful if swallowed.
H318 Causes serious eye damage.
H319 Causes serious eye irritation.
H335 May cause respiratory irritation.
H272 May intensify fire, oxidiser.

Skin Corr. — Skin corrosion
Eye Dam. — Serious eye damage
Met. Corr. — Substance or mixture corrosive to metals
STOT SE — Specific target organ toxicity - single exposure - respiratory tract irritation
Acute Tox. — Acute toxicity - oral
Eye Irrit. — Eye irritation
Ox. Sol. — Oxidising solid

Any abbreviations and acronyms used in this document:

acc., acc. to according, according to
ADR Accord européen relatif au transport international des marchandises Dangereuses par Route (= European Agreement concerning the International Carriage of Dangerous Goods by Road)
AOX Adsorbable organic halogen compounds
approx. approximately
Art., Art. no. Article number
ASTM ASTM International (American Society for Testing and Materials)
BAM Bundesanstalt für Materialforschung und -prüfung (Federal Institute for Materials Research and Testing, Germany)
BAuA Bundesanstalt für Arbeitsschutz und Arbeitsmedizin (= Federal Institute for Occupational Health and Safety, Germany)
BSEF The International Bromine Council
bw body weight
CAS Chemical Abstracts Service
CLP Classification, Labelling and Packaging (REGULATION (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures)
CMR carcinogenic, mutagenic, reproductive toxic
DMEL Derived Minimum Effect Level
DNEL Derived No Effect Level
dw dry weight
e.g. for example (abbreviation of Latin 'exempli gratia'), for instance
EC European Community
ECHA European Chemicals Agency
EEC European Economic Community
EINECS European Inventory of Existing Commercial Chemical Substances
ELINCS European List of Notified Chemical Substances
EN European Norms
EPA United States Environmental Protection Agency (United States of America)
etc. et cetera
EU European Union
EVAL Ethylene-vinyl alcohol copolymer
Fax. Fax number
gen. general
GHS Globally Harmonized System of Classification and Labelling of Chemicals
GWP Global warming potential
IARC International Agency for Research on Cancer
IATA International Air Transport Association
IBC (Code) International Bulk Chemical (Code)
IMDG-code International Maritime Code for Dangerous Goods
incl. including, inclusive
IUCLID International Uniform Chemical Information Database
LQ Limited Quantities
MARPOL International Convention for the Prevention of Marine Pollution from Ships
n.a. not applicable
n.av. not available
n.c. not checked
n.d.a. no data available
OECD Organisation for Economic Co-operation and Development
org. organic
PBT persistent, bioaccumulative and toxic
PE Polyethylene
PNEC Predicted No Effect Concentration
ppm parts per million
PVC Polyvinylchloride
REACH Registration, Evaluation, Authorisation and Restriction of Chemicals (REGULATION (EC) No 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals)
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RID Règlement concernant le transport International ferroviaire de marchandises Dangereuses (= Regulation concerning the International Carriage of Dangerous Goods by Rail)
SVHC Substances of Very High Concern
Tel. Telephone
UN RTDG United Nations Recommendations on the Transport of Dangerous Goods
VOC Volatile organic compounds
vPvB very persistent and very bioaccumulative
wwt wet weight

The statements made here should describe the product with regard to the necessary safety precautions - they are not meant to guarantee definite characteristics - but they are based on our present up-to-date knowledge.
No responsibility.
These statements were made by:
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