acc. to Regulation (EC) No. 1907/2006 (REACH)

RBS® 25, Laboratory cleaning agent

article number: AL89 date of compilation: 2015-06-02 Version: **5.0 en** Revision: 2023-11-09

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Version: (4)

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

Product identifier 1.1

Identification of the substance **RBS**® **25**, Laboratory cleaning agent

Article number **AL89**

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

Relevant identified uses: Laboratory chemical

Laboratory and analytical use

Cleaning agent

Uses advised against: Do not use for private purposes (household).

Food, drink and animal feedingstuffs.

1.3 Details of the supplier of the safety data sheet

Carl Roth GmbH + Co KG Schoemperlenstr. 3-5 D-76185 Karlsruhe Germany

Telephone:+49 (0) 721 - 56 06 0 **Telefax:** +49 (0) 721 - 56 06 149 e-mail: sicherheit@carlroth.de Website: www.carlroth.de

sheet:

sicherheit@carlroth.de e-mail (competent person):

Emergency telephone number 1.4

Name	Street	Postal code/city	Telephone	Website
National Poisons Information Service City Hospital	Dudley Rd	B187QH Birmingham	844 892 0111	

SECTION 2: Hazards identification

Classification of the substance or mixture

Classification acc. to GHS

Section	Hazard class	Cat- egory	Hazard class and category	Hazard statement
2.16	Substance or mixture corrosive to metals	1	Met. Corr. 1	H290
3.2	Skin corrosion/irritation	2	Skin Irrit. 2	H315
3.3	Serious eye damage/eye irritation	1	Eye Dam. 1	H318
4.1C	Hazardous to the aquatic environment - chronic hazard	3	Aquatic Chronic 3	H412

For full text of abbreviations: see SECTION 16

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The most important adverse physicochemical, human health and environmental effects

Spillage and fire water can cause pollution of watercourses.

2.2 Label elements

Labelling

Signal word Danger

Pictograms

GHS05



Hazard statements

H290	May be corrosive to metals
H315	Causes skin irritation
H318	Causes serious eye damage

H412 Harmful to aquatic life with long lasting effects

Precautionary statements

Precautionary statements - prevention

P280 Wear protective gloves/eye protection/face protection

Precautionary statements - response

P301+P330+P331	IF SWALLOWED: rinse mouth. Do NOT induce vomiting
P303+P361+P353	IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin

with water [or shower]

P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact

lenses, if present and easy to do. Continue rinsing

P310 Immediately call a POISON CENTER/doctor

Hazardous ingredients for labelling:Sodium hypochlorite, solution ... % Cl active, Sodi-

um hydroxide

2.3 Other hazards

Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of $\geq 0.1\%$.

Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of \geq 0,1%.

SECTION 3: Composition/information on ingredients

3.1 Substances

not relevant (mixture)

3.2 Mixtures

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Description of the mixture

Name of sub- stance	Identifier	Wt%	Classification acc. to GHS	Pictograms	Notes
tetra-Potassium pyro- phosphate	CAS No 7320-34-5	<15	Eye Irrit. 2 / H319	<u>(!)</u>	
	EC No 230-785-7			~	
Sodium hypochlorite, solution % Cl active	CAS No 7681-52-9	< 5	Skin Corr. 1B / H314 Eye Dam. 1 / H318	E	B(a) GHS-HC
	EC No 231-668-3		Aquatic Acute 1 / H400 Aquatic Chronic 1 / H410		
	Index No 017-011-00-1				
Sodium hydroxide	CAS No 1310-73-2	<1	Met. Corr. 1 / H290 Skin Corr. 1A / H314 Eye Dam. 1 / H318		GHS-HC
	EC No 215-185-5		Lyc bann. 1711310	~	
	Index No 011-002-00-6				

Notes

B(a): The classification refers to an aqueous solution GHS-HC: Harmonised classification (the classification of the substance corresponds to the entry in the list according to 1272/2008/EC, Annex VI)

Name of sub- stance	Identifier	Specific Conc. Limits	M-Factors	ATE	Exposure route
Sodium hypo- chlorite, solu- tion % Cl act- ive	CAS No 7681-52-9 EC No 231-668-3	-	M-factor (acute) = 10 M-factor (chronic) = 1	1.100 ^{mg} / _{kg}	oral
Sodium hydrox- ide	CAS No 1310-73-2 EC No 215-185-5	Skin Corr. 1A; H314: C ≥ 5 % Skin Corr. 1B; H314: 2 % ≤ C < 5 % Skin Irrit. 2; H315: 0,5 % ≤ C < 2 % Eye Dam. 1; H318: C ≥ 2 % Eye Irrit. 2; H319: 0,5 % ≤ C < 2 %	-	-	

For full text of abbreviations: see SECTION 16

SECTION 4: First aid measures

4.1 **Description of first aid measures**



General notes

Take off contaminated clothing.

Following inhalation

Provide fresh air. In all cases of doubt, or when symptoms persist, seek medical advice.

Following skin contact

Rinse skin with water/shower. In case of skin irritation, consult a physician.

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Following eye contact

In case of contact with eyes flush immediately with plenty of flowing water for 10 to 15 minutes holding eyelids apart and consult an ophthalmologist.

Following ingestion

Rinse mouth. Call a doctor if you feel unwell.

4.2 Most important symptoms and effects, both acute and delayed

Risk of blindness, Risk of serious damage to eyes, Irritation

4.3 Indication of any immediate medical attention and special treatment needed

none

SECTION 5: Firefighting measures

5.1 Extinguishing media



Suitable extinguishing media

co-ordinate firefighting measures to the fire surroundings! water spray, alcohol resistant foam, dry extinguishing powder, BC-powder, carbon dioxide (CO₂)

Unsuitable extinguishing media

water jet

5.2 Special hazards arising from the substance or mixture

Non-combustible.

5.3 Advice for firefighters

In case of fire and/or explosion do not breathe fumes. Do not allow firefighting water to enter drains or water courses. Fight fire with normal precautions from a reasonable distance. Wear self-contained breathing apparatus.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures



For non-emergency personnel

Use personal protective equipment as required. Avoid contact with skin, eyes and clothes. Do not breathe vapour/spray.

6.2 Environmental precautions

Keep away from drains, surface and ground water. Retain contaminated washing water and dispose of it. If substance has entered a water course or sewer, inform the responsible authority.

6.3 Methods and material for containment and cleaning up

Advice on how to contain a spill

Covering of drains.

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Advice on how to clean up a spill

Absorb with liquid-binding material (sand, diatomaceous earth, acid- or universal binding agents).

Other information relating to spills and releases

Place in appropriate containers for disposal.

Reference to other sections 6.4

Hazardous combustion products: see section 5. Personal protective equipment: see section 8. Incompatible materials: see section 10. Disposal considerations: see section 13.

SECTION 7: Handling and storage

7.1 **Precautions for safe handling**

No special measures are necessary.

Advice on general occupational hygiene

Wash hands before breaks and after work. Keep away from food, drink and animal feedingstuffs.

7.2 Conditions for safe storage, including any incompatibilities

Keep container tightly closed.

Incompatible substances or mixtures

Observe hints for combined storage.

Consideration of other advice:

Specific designs for storage rooms or vessels

Do not keep the container sealed.

Recommended storage temperature: 15 - 25 °C

7.3 Specific end use(s)

No information available.

SECTION 8: Exposure controls/personal protection

8.1 **Control parameters**

National limit values

Occupational exposure limit values (Workplace Exposure Limits)

Cou ntr y	Name of agent	CAS No	Identi- fier	TW A [pp m]	TWA [mg/ m³]	STE L [pp m]	STEL [mg/ m³]	Ceil ing- C [pp m]	Ceil- ing-C [mg/ m³]	Nota- tion	Source
GB	sodium hydroxide	1310-73- 2	WEL				2				EH40/ 2005

Notation

Ceiling-C Ceiling value is a limit value above which exposure should not occur **STEL**

Short-term exposure limit: a limit value above which exposure should not occur and which is related to a 15minute period (unless otherwise specified)

Time-weighted average (long-term exposure limit): measured or calculated in relation to a reference period of 8 hours time-weighted average (unless otherwise specified) TWA

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Relevant DNELs of components Name of sub-**CAS No** End-**Threshol Used in Exposure time Protection** goal, route of point d level stance exposure 17,63 mg/ human, inhalattetra-Potassium 7320-34-5 DNEL worker (industry) chronic - systemic effects pyrophosphate m³ orv Sodium hypochlor-7681-52-9 DNEL 1,55 mg/ human, inhalatworker (industry) chronic - systemic ite, solution ... % Cl effects ory active Sodium hypochlor-7681-52-9 DNEL 3,1 mg/m³ human, inhalatacute - systemic worker (industry) ite, solution ... % Cl effects active 1,55 mg/ chronic - local ef-Sodium hypochlor-7681-52-9 DNEL human, inhalatworker (industry) ite, solution ... % Cl m³ ory fects active Sodium hypochlor-7681-52-9 DNEL 3,1 mg/m³ human, inhalatworker (industry) acute - local efite, solution ... % Cl ory fects active

Relevant PNECs of components

Name of sub- stance	CAS No	End- point	Threshol d level	Organism	Environmental compartment	Exposure time
Sodium hypochlor- ite, solution % Cl active	7681-52-9	PNEC	0,21 ^{µg} / _l	aquatic organ- isms	freshwater	short-term (single instance)
Sodium hypochlor- ite, solution % Cl active	7681-52-9	PNEC	0,042 ^{µg} / _l	aquatic organ- isms	marine water	short-term (single instance)
Sodium hypochlor- ite, solution % Cl active	7681-52-9	PNEC	4,69 ^{mg} / _l	aquatic organ- isms	sewage treatment plant (STP)	short-term (single instance)

8.2 Exposure controls

Individual protection measures (personal protective equipment)

Eye/face protection





Use safety goggle with side protection.

Skin protection





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hand protection

Wear suitable gloves. Chemical protection gloves are suitable, which are tested according to EN 374. For special purposes, it is recommended to check the resistance to chemicals of the protective gloves mentioned above together with the supplier of these gloves. The times are approximate values from measurements at 22 ° C and permanent contact. Increased temperatures due to heated substances, body heat etc. and a reduction of the effective layer thickness by stretching can lead to a considerable reduction of the breakthrough time. If in doubt, contact manufacturer. At an approx. 1.5 times larger / smaller layer thickness, the respective breakthrough time is doubled / halved. The data apply only to the pure substance. When transferred to substance mixtures, they may only be considered as a guide.

type of material

NBR (Nitrile rubber)

material thickness

0.3 mm

breakthrough times of the glove material

>480 minutes (permeation: level 6)

other protection measures

Take recovery periods for skin regeneration. Preventive skin protection (barrier creams/ointments) is recommended.

Respiratory protection





Respiratory protection necessary at: Aerosol or mist formation. Type: ABEK (combined filters against gases and vapours, colour code: Brown/Grey/Yellow/Green).

Environmental exposure controls

Keep away from drains, surface and ground water.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Physical state liquid Colour white Odour odourless

Melting point/freezing point not determined Boiling point or initial boiling point and boiling not determined

range

Flammability non-combustible Lower and upper explosion limit not determined not determined Flash point Auto-ignition temperature not determined Decomposition temperature not relevant pH (value) 13,6 (20 °C)

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Kinematic viscosity 1,927 mm²/s at 20 °C

Dynamic viscosity 2,1 mPa s at 20 °C

Solubility(ies)

Water solubility miscible in any proportion

Partition coefficient

Partition coefficient n-octanol/water (log value): not relevant (inorganic)

Vapour pressure 23 hPa at 20 °C

Density and/or relative density

Density $1,09 \, {}^{9}/_{cm^3}$ at 20 ${}^{\circ}$ C

Relative vapour density information on this property is not available

Particle characteristics not relevant (liquid)

Other safety parameters

Oxidising properties none

9.2 Other information

Information with regard to physical hazard

classes:

Corrosive to metals category 1: corrosive to metals

Other safety characteristics:

Miscibility completely miscible with water

SECTION 10: Stability and reactivity

10.1 Reactivity

Substance or mixture corrosive to metals.

10.2 Chemical stability

The material is stable under normal ambient and anticipated storage and handling conditions of temperature and pressure.

10.3 Possibility of hazardous reactions

Violent reaction with: Strong acid

10.4 Conditions to avoid

There are no specific conditions known which have to be avoided.

10.5 Incompatible materials

different metals

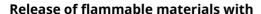
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Metals, Light metals (due to the release of hydrogen in an acid/alkaline medium)

10.6 Hazardous decomposition products

Hazardous combustion products: see section 5.

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Test data are not available for the complete mixture.

Classification procedure

The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

Classification acc. to GHS

Acute toxicity

Shall not be classified as acutely toxic.

Acute toxicity estimate (ATE) of components

Name of substance	CAS No	Exposure route	ATE
Sodium hypochlorite, solution % Cl active	7681-52-9	oral	1.100 ^{mg} / _{kg}

Acute toxicity of components

Name of substance	CAS No	Exposure route	Endpoint	Value	Species
tetra-Potassium pyrophosphate	7320-34-5	dermal	LD50	>2.000 ^{mg} / _{kg}	rabbit
Sodium hypochlorite, solution % Cl active	7681-52-9	oral	LD50	1.100 ^{mg} / _{kg}	rat
Sodium hypochlorite, solution % Cl active	7681-52-9	dermal	LD50	>20.000 ^{mg} / _{kg}	rabbit

Skin corrosion/irritation

Causes skin irritation.

Serious eye damage/eye irritation

Causes serious eye damage.

Respiratory or skin sensitisation

Shall not be classified as a respiratory or skin sensitiser.

Germ cell mutagenicity

Shall not be classified as germ cell mutagenic.

Carcinogenicity

Shall not be classified as carcinogenic.

Reproductive toxicity

Shall not be classified as a reproductive toxicant.

Specific target organ toxicity - single exposure

Shall not be classified as a specific target organ toxicant (single exposure).

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Specific target organ toxicity - repeated exposure

Shall not be classified as a specific target organ toxicant (repeated exposure).

Aspiration hazard

Shall not be classified as presenting an aspiration hazard.

Symptoms related to the physical, chemical and toxicological characteristics

If swallowed

Data are not available.

• If in eyes

Causes serious eye damage, risk of blindness

If inhaled

Data are not available.

• If on skin

causes skin irritation

Other information

none

11.2 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of \geq 0,1%.

11.3 Information on other hazards

There is no additional information.

SECTION 12: Ecological information

12.1 Toxicity

Harmful to aquatic life with long lasting effects.

Aquatic toxicity (acute) of components

Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time
tetra-Potassium pyro- phosphate	7320-34-5	LC50	>100 ^{mg} / _l	fish	96 h
tetra-Potassium pyro- phosphate	7320-34-5	EC50	>100 ^{mg} / _l	aquatic invertebrates	48 h
tetra-Potassium pyro- phosphate	7320-34-5	ErC50	>100 ^{mg} / _l	algae	72 h
Sodium hypochlorite, solution % Cl active	7681-52-9	EC50	35 ^{µg} / _I	aquatic invertebrates	48 h
Sodium hypochlorite, solution % Cl active	7681-52-9	ErC50	0,036 ^{mg} / _l	algae	72 h
Sodium hydroxide	1310-73-2	LC50	<180 ^{mg} / _l	fish	96 h
Sodium hydroxide	1310-73-2	EC50	40,4 ^{mg} / _l	aquatic invertebrates	48 h

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Aquatic toxicity (chronic) of components								
Name of sub- stance	CAS No	Endpoint	Value	Species	Exposure time			
tetra-Potassium pyro- phosphate	7320-34-5	EC50	>1.000 ^{mg} / _l	microorganisms	3 h			
Sodium hydroxide	1310-73-2	EC50	22 ^{mg} / _l	microorganisms	15 min			

12.2 Persistence and degradability

Data are not available.

12.3 Bioaccumulative potential

Data are not available.

Bioaccumulative potential of components				
Name of substance	CAS No	BCF	Log KOW	BOD5/COD
Sodium hypochlorite, solution % Cl active	7681-52-9		-3,42 (pH value: 12,5, 20 °C)	

12.4 Mobility in soil

Data are not available.

12.5 Results of PBT and vPvB assessment

Does not contain a PBT-/vPvB-substance in a concentration of \geq 0,1%.

12.6 Endocrine disrupting properties

Does not contain an endocrine disruptor (ED) in a concentration of \geq 0,1%.

12.7 Other adverse effects

Data are not available.

SECTION 13: Disposal considerations

13.1 Waste treatment methods



This material and its container must be disposed of as hazardous waste. Dispose of contents/container in accordance with local/regional/national/international regulations.

Sewage disposal-relevant information

Do not empty into drains. Avoid release to the environment. Refer to special instructions/safety data sheets.

Waste treatment of containers/packagings

It is a dangerous waste; only packagings which are approved (e.g. acc. to ADR) may be used. Handle contaminated packages in the same way as the substance itself. Completely emptied packages can be recycled.

13.2 Relevant provisions relating to waste

The allocation of waste identity numbers/waste descriptions must be carried out according to the EEC, specific to the industry and process.

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Properties of waste which render it hazardous

HP 4 irritant - skin irritation and eye damage

HP 14 ecotoxic

13.3 Remarks

Waste shall be separated into the categories that can be handled separately by the local or national waste management facilities. Please consider the relevant national or regional provisions. Non-contaminated packages may be recycled.

SECTION 14: Transport information

14.1 UN number or ID number

ADRRID UN 3266
IMDG-Code UN 3266
ICAO-TI UN 3266

14.2 UN proper shipping name

ADRRID CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. IMDG-Code CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

ICAO-TI Corrosive liquid, basic, inorganic, n.o.s.

Technical name (hazardous ingredients)

Sodium hydroxide, Sodium hypochlorite, solu-

tion ... % Čl active

14.3 Transport hazard class(es)

ADRRID 8
IMDG-Code 8
ICAO-TI 8

14.4 Packing group

ADRRID III
IMDG-Code III
ICAO-TI III

14.5 Environmental hazards non-environmentally hazardous acc. to the dan-

gerous goods regulations

14.6 Special precautions for user

Provisions for dangerous goods (ADR) should be complied within the premises.

14.7 Maritime transport in bulk according to IMO instruments

The cargo is not intended to be carried in bulk.

14.8 Information for each of the UN Model Regulations

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Agreement concerning the International Carriage of Dangerous Goods by Road (ADR)Additional information

Proper shipping name CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S.

UN3266, CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S., (contains: Sodium hydroxide, Sodium hypochlorite, solution ... % Cl active), 8, III, (E) Particulars in the transport document

C5 Classification code

8 Danger label(s)



Special provisions (SP) 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

Transport category (TC) 3

Tunnel restriction code (TRC) Ε

80 Hazard identification No

Emergency Action Code 2X

Regulations concerning the International Carriage of Dangerous Goods by Rail (RID)Additional information

Classification code C5

Danger label(s) 8



Special provisions (SP) 274

Excepted quantities (EQ) E1

Limited quantities (LQ) 5 L

Transport category (TC) 3

Hazard identification No

International Maritime Dangerous Goods Code (IMDG) - Additional information

CORROSIVE LIQUID, BASIC, INORGANIC, N.O.S. Proper shipping name

Particulars in the shipper's declaration UN3266, CORROSIVE LIQUID, BASIC, INORGANIC,

N.O.S., (contains: Sodium hydroxide, Sodium hy-

pochlorite, solution ... % Cl active), 8, III

Marine pollutant

8 Danger label(s)



Special provisions (SP) 223, 274

Excepted quantities (EQ) E1

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Limited quantities (LQ) 5 L

EmS F-A, S-B

Stowage category A

Segregation group 18 - Alkalis

International Civil Aviation Organization (ICAO-IATA/DGR) - Additional information

Proper shipping name Corrosive liquid, basic, inorganic, n.o.s.

Particulars in the shipper's declaration UN3266, Corrosive liquid, basic, inorganic, n.o.s.,

(contains: Sodium hydroxide, Sodium hypochlor-

ite, solution ... % Cl active), 8, III

Danger label(s) 8



Special provisions (SP) A3
Excepted quantities (EQ) E1
Limited quantities (LQ) 1 L

SECTION 15: Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture Relevant provisions of the European Union (EU)

Seveso Directive

2012/	2012/18/EU (Seveso III)			
No	Dangerous substance/hazard categories	Qualifying quantity (tonnes) for the application of lower and upper-tier requirements	Notes	
	not assigned			

Deco-Paint Directive

VOC content	0 %
VOC content (Water content was discounted)	0 ^g / _I

Industrial Emissions Directive (IED)

VOC content	0 %
VOC content (Water content was discounted)	0 ^g / _l

Directive on the restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS)

none of the ingredients are listed

Regulation concerning the establishment of a European Pollutant Release and Transfer Register (PRTR)

none of the ingredients are listed

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Water Framework Directive (WFD)

List of pollutants (WFD)

Name of substance	Name acc. to inventory	CAS No	Listed in	Remarks
Sodium hydroxide	Metals and their compounds		a)	
tetra-Potassium pyrophosphate	Metals and their compounds		a)	
Sodium hypochlorite, solution % Cl active	Metals and their compounds		a)	

Legend

a)

Indicative list of the main pollutants

Regulation on the marketing and use of explosives precursors

none of the ingredients are listed

Regulation on drug precursors

none of the ingredients are listed

Regulation on substances that deplete the ozone layer (ODS)

none of the ingredients are listed

Regulation concerning the export and import of hazardous chemicals (PIC)

none of the ingredients are listed

Regulation on persistent organic pollutants (POP)

none of the ingredients are listed

National regulations(GB)

List of substances subject to authorisation (GB REACH, Annex 14) / SVHC - candidate list

none of the ingredients are listed

Restrictions according to GB REACH, Annex 17

none of the ingredients are listed

Other information

Directive 94/33/EC on the protection of young people at work. Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.

National inventories

Country	Inventory	Status
AU	AIIC	all ingredients are listed
CA	DSL	all ingredients are listed
CN	IECSC	all ingredients are listed
EU	ECSI	all ingredients are listed
EU	REACH Reg.	all ingredients are listed
JP	CSCL-ENCS	not all ingredients are listed
JP	ISHA-ENCS	not all ingredients are listed
KR	KECI	all ingredients are listed
MX	INSQ	not all ingredients are listed

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Country	Inventory	Status
NZ	NZIoC	all ingredients are listed
PH	PICCS	all ingredients are listed
TR	CICR	not all ingredients are listed
TW	TCSI	all ingredients are listed
US	TSCA	all ingredients are listed (ACTIVE)

Legend

AIIC Australian Inventory of Industrial Chemicals Chemical Inventory and Control Regulation List of Existing and New Chemical Substances (CSCL-ENCS) CICR CSCL-ENCS DSL ECSI IECSC

Domestic Substances List (DSL)

Domestic Substances List (DSL)
EC Substance Inventory (EINECS, ELINCS, NLP)
Inventory of Existing Chemical Substances Produced or Imported in China
National Inventory of Chemical Substances
Inventory of Existing and New Chemical Substances (ISHA-ENCS)
Korea Existing Chemicals Inventory
New Zealand Inventory of Chemicals
Philippine Inventory of Chemicals and Chemical Substances (PICCS)
REACH registered substances

INSO

ISHA-ENCS

KECI NZIoC

PICCS

REACH Reg. REACH registered substances
TCSI Taiwan Chemical Substance Inventory

TSCA Toxic Substance Control Act

15.2 Chemical safety assessment

Chemical safety assessments for substances in this mixture were not carried out.

SECTION 16: Other information

Indication of changes (revised safety data sheet)

Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
2.1		Classification acc. to GHS: change in the listing (table)	yes
2.1	The most important adverse physicochemical, human health and environmental effects: Skin corrosion produces an irreversible damage to the skin; namely, visible necrosis through the epidermis and into the dermis. Spillage and fire water can cause pollution of watercourses.	The most important adverse physicochemical, human health and environmental effects: Spillage and fire water can cause pollution of watercourses.	yes
2.2		Pictograms: change in the listing (table)	yes
2.2		Hazard statements: change in the listing (table)	yes
14.4	ADRRID: II	ADRRID: III	yes
14.4	IMDG-Code: II	IMDG-Code: III	yes
14.4	ICAO-TI: II	ICAO-TI: III	yes
14.5	Environmental hazards: hazardous to the aquatic environment	Environmental hazards: non-environmentally hazardous acc. to the dan- gerous goods regulations	yes
14.5	Environmentally hazardous substance (aquatic environment): Sodium hypochlorite, solution % Cl active		yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
14.8	Particulars in the transport document: UN3266, CORROSIVE LIQUID, BASIC, INORGAN- IC, N.O.S., (contains: Sodium hydroxide, Sodium hypochlorite, solution % Cl active), 8, II, (E), environmentally hazardous	Particulars in the transport document: UN3266, CORROSIVE LIQUID, BASIC, INORGAN- IC, N.O.S., (contains: Sodium hydroxide, Sodium hypochlorite, solution % Cl active), 8, III, (E)	yes
14.8	Danger label(s): 8, "Fish and tree"	Danger label(s): 8	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8	Environmental hazards: yes (hazardous to the aquatic environment)		yes
14.8	Excepted quantities (EQ): E2	Excepted quantities (EQ): E1	yes
14.8	Limited quantities (LQ): 1 L	Limited quantities (LQ): 5 L	yes
14.8	Transport category (TC): 2	Transport category (TC): 3	yes
14.8	Danger label(s): 8 Fish and tree	Danger label(s): 8	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8	Environmental hazards: Yes Hazardous to water		yes
14.8	Excepted quantities (EQ): E2	Excepted quantities (EQ): E1	yes
14.8	Limited quantities (LQ): 1 L	Limited quantities (LQ): 5 L	yes
14.8	Transport category (TC): 2	Transport category (TC): 3	yes
14.8	Particulars in the shipper's declaration: UN3266, CORROSIVE LIQUID, BASIC, INORGAN- IC, N.O.S., (contains: Sodium hydroxide, Sodium hypochlorite, solution % Cl active), 8, II, MAR- INE POLLUTANT	Particulars in the shipper's declaration: UN3266, CORROSIVE LIQUID, BASIC, INORGAN- IC, N.O.S., (contains: Sodium hydroxide, Sodium hypochlorite, solution % Cl active), 8, III	yes
14.8	Marine pollutant: yes (hazardous to the aquatic environment), (Sodium hypochlorite, solution % Cl active)	Marine pollutant: -	yes
14.8	Danger label(s): 8, "Fish and tree"	Danger label(s): 8	yes
14.8		Danger label(s): change in the listing (table)	yes
14.8	Special provisions (SP): 274	Special provisions (SP): 223, 274	yes
14.8	Excepted quantities (EQ): E2	Excepted quantities (EQ): E1	yes
14.8	Limited quantities (LQ): 1 L	Limited quantities (LQ): 5 L	yes

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Section	Former entry (text/value)	Actual entry (text/value)	Safety- relev- ant
14.8	Stowage category: B	Stowage category: A	yes
14.8	Particulars in the shipper's declaration: UN3266, Corrosive liquid, basic, inorganic, n.o.s., (contains: Sodium hydroxide, Sodium hy- pochlorite, solution % Cl active), 8, II	Particulars in the shipper's declaration: UN3266, Corrosive liquid, basic, inorganic, n.o.s., (contains: Sodium hydroxide, Sodium hy- pochlorite, solution % Cl active), 8, III	yes
14.8	Environmental hazards: yes (hazardous to the aquatic environment)		yes
14.8	Excepted quantities (EQ): E2	Excepted quantities (EQ): E1	yes
14.8	Limited quantities (LQ): 0,5 L	Limited quantities (LQ): 1 L	yes
15.1		2012/18/EU (Seveso III): change in the listing (table)	yes

Abbreviations and acronyms

Abbr.	Descriptions of used abbreviations
ADR	Accord relatif au transport international des marchandises dangereuses par route (Agreement concerning the International Carriage of Dangerous Goods by Road)
Aquatic Acute	Hazardous to the aquatic environment - acute hazard
Aquatic Chronic	Hazardous to the aquatic environment - chronic hazard
ATE	Acute Toxicity Estimate
BCF	Bioconcentration factor
BOD	Biochemical Oxygen Demand
CAS	Chemical Abstracts Service (service that maintains the most comprehensive list of chemical substances)
Ceiling-C	Ceiling value
COD	Chemical oxygen demand
DGR	Dangerous Goods Regulations (see IATA/DGR)
DNEL	Derived No-Effect Level
EC50	Effective Concentration 50 %. The EC50 corresponds to the concentration of a tested substance causing 50 % changes in response (e.g. on growth) during a specified time interval
EC No	The EC Inventory (EINECS, ELINCS and the NLP-list) is the source for the seven-digit EC number, an identifier of substances commercially available within the EU (European Union)
ED	Endocrine disruptor
EH40/2005	EH40/2005 Workplace exposure limits (http://www.nationalarchives.gov.uk/doc/open-government-li- cence/)
EINECS	European Inventory of Existing Commercial Chemical Substances
ELINCS	European List of Notified Chemical Substances
EmS	Emergency Schedule
ErC50	≡ EC50: in this method, that concentration of test substance which results in a 50 % reduction in either growth (EbC50) or growth rate (ErC50) relative to the control

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Abbr.	Descriptions of used abbreviations
Eye Dam. Seriously damaging to the eye	
Eye Irrit.	Irritant to the eye
GB REACH	The REACH etc. (Amendment etc.) (EU Exit) Regulations 2019, SI 2019/758 (as amended)
GHS	"Globally Harmonized System of Classification and Labelling of Chemicals" developed by the United Nations
IATA	International Air Transport Association
IATA/DGR	Dangerous Goods Regulations (DGR) for the air transport (IATA)
ICAO	International Civil Aviation Organization
ICAO-TI	Technical instructions for the safe transport of dangerous goods by air
IMDG	International Maritime Dangerous Goods Code
IMDG-Code	International Maritime Dangerous Goods Code
index No	The Index number is the identification code given to the substance in Part 3 of Annex VI to Regulation (EC) No 1272/2008
LC50	Lethal Concentration 50%: the LC50 corresponds to the concentration of a tested substance causing 50 % lethality during a specified time interval
LD50	Lethal Dose 50 %: the LD50 corresponds to the dose of a tested substance causing 50 % lethality during a specified time interval
log KOW	n-Octanol/water
Met. Corr.	Substance or mixture corrosive to metals
M-factor	Means a multiplying factor. It is applied to the concentration of a substance classified as hazardous to the aquatic environment acute category 1 or chronic category 1, and is used to derive by the summation method the classification of a mixture in which the substance is present
NLP	No-Longer Polymer
PBT	Persistent, Bioaccumulative and Toxic
PNEC	Predicted No-Effect Concentration
ppm	Parts per million
REACH	Registration, Evaluation, Authorisation and Restriction of Chemicals
RID	Règlement concernant le transport International ferroviaire des marchandises Dangereuses (Regula- tions concerning the International carriage of Dangerous goods by Rail)
Skin Corr.	Corrosive to skin
Skin Irrit.	Irritant to skin
STEL	Short-term exposure limit
TWA	Time-weighted average
VOC	Volatile Organic Compounds
vPvB	Very Persistent and very Bioaccumulative
WEL	Workplace exposure limit

Key literature references and sources for data

Agreement concerning the International Carriage of Dangerous Goods by Road (ADR). Regulations concerning the International Carriage of Dangerous Goods by Rail (RID). International Maritime Dangerous Goods Code (IMDG). Dangerous Goods Regulations (DGR) for the air transport (IATA).

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Classification procedure

Physical and chemical properties. The classification is based on tested mixture. Health hazards. Environmental hazards. The method for classification of the mixture is based on ingredients of the mixture (additivity formula).

List of relevant phrases (code and full text as stated in section 2 and 3)

Code	Text
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.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

Disclaimer

This information is based upon the present state of our knowledge. This SDS has been compiled and is solely intended for this product.

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