



EC 10

Print date 12.12.2022
Revision date 10.11.2022
Version 4.0 (en)
replaces version of 06.05.2020 (3.4)

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

*** 1.1 Product identifier**

Trade name/designation EC 10
Unique Formula Identifier UFI: AD70-Q047-900Y-Q19E
Product category PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

Hazard components

tripotassium orthophosphate, n-propanol, sodium hydroxide

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

Sector of uses [SU]

SU20 Health services
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)
SU3 Industrial uses

*** Product Categories [PC]**

PC35 Washing and cleaning products

*** Use of the substance/mixture**

Aqueous-alkaline universal cleaning concentrate for ultrasonic and immersion cleaning of alkali-resistant parts and medical devices.

This data sheet holds beginning from December 2022.

1.3 Details of the supplier of the safety data sheet

Supplier

Elma Schmidbauer GmbH
Gottlieb-Daimler-Str. 17
D-78224 Singen (Htwl.)
Telephone +49 7731 882-0
Telefax +49 7731 882-266
E-mail info@elma-ultrasonic.com
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Department responsible for information:
Chemie/Labor: Email: chemlab@elma-ultrasonic.com

Lieferant / Supplier:
Carl Roth GmbH + Co KG
Schoemperlenstr. 3-5
76185 Karlsruhe, Germany
+49 721 5606 0
sicherheit@carlroth.de

*** 1.4 Emergency telephone number**

Vergiftungs-Informations-Zentrale Freiburg (Sprache/Language: DE, +49 761 19240
EN)

*** SECTION 2: Hazards identification**

*** 2.1 Classification of the substance or mixture**

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

Met. Corr. 1, H290 Expert judgement and weight of evidence determination.
Skin Irrit. 2, H315 Expert judgement and weight of evidence determination.
Eye Dam. 1, H318 Calculation method.

Hazard statements for physical hazards

H290 May be corrosive to metals.

Hazard statements for health hazards

H315 Causes skin irritation.

H318 Causes serious eye damage.

*** 2.2 Label elements**



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

Hazard components

tripotassium orthophosphate, n-propanol, sodium hydroxide

Hazard pictograms



GHS05

Signal word

Danger

Hazard statements

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

* **Precautionary statements**

P280 Wear protective gloves/eye protection.
P312 Call a POISON CENTER/doctor if you feel unwell.
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 doctor.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

* **Other labelling**

Labelling for contents according to regulation (EC) No. 648/2004:
< 5% non-ionic surfactants
< 5% phosphates

* **2.3 Other hazards**

* **Adverse human health effects and symptoms**

The product does not contain any substances with endocrine-disrupting properties $\geq 0.1\%$.

* **Adverse environmental effects**

Aquatic Acute 3 H402: Harmful to aquatic life.
The product does not contain any substances with endocrine-disrupting properties $\geq 0.1\%$.

Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

* **SECTION 3: Composition / information on ingredients**

3.1 Substances

not applicable

* **3.2 Mixtures**

* **Hazardous ingredients**

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
584-08-7	209-529-3	potassium carbonate	< 5 weight-%	Skin Irrit. 2; H315 Eye Irrit. 2; H319 STOT SE 3; H335	
7778-53-2	231-907-1	tripotassium orthophosphate	< 5 weight-%	Met. Corr. 1; H290 Skin Irrit. 2; H315 Eye Dam. 1; H318 STOT SE 3; H335	
71-23-8	200-746-9	n-propanol	< 5 weight-%	Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336	



Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)

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CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
1310-73-2	215-185-5	sodium hydroxide	< 1 weight-%	Met. Corr. 1; H290 Skin Corr. 1A; H314 Eye Dam. 1; H318	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%

REACH No.	Substance name
01-2119486761-29	n-propanol
01-2119971078-30	tripotassium orthophosphate
01-2119532646-36	potassium carbonate
01-2119457892-27	sodium hydroxide

* **Additional information**
Aqueous alkaline mixture with sodium hydroxide, non-ionic surfactants, alkaliphosphates, -carbonates and corrosion inhibitors with cosolvent.

* **SECTION 4: First aid measures**

* **4.1 Description of first aid measures**

* **General information**
Remove contaminated soaked clothing immediately, don't leave to dry.

Following inhalation
Provide fresh air.
In case of inhaling spray mist, consult a physician.

* **Following skin contact**
In case of contact with skin wash off immediately with plenty of water.
In case of skin irritation, consult a physician.

After eye contact
After contact with the eyes, rinse with water with the eyelids open for a sufficient length of time, then consult an ophthalmologist immediately.

Following ingestion
Do NOT induce vomiting.
If swallowed seek medical advice immediately and show the doctor packing or label.
Rinse mouth immediately and drink plenty of water.
In the event of persistent symptoms receive medical treatment.

4.2 Most important symptoms and effects, both acute and delayed

Symptoms
No further informations available.

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

* **Notes for the doctor**
Keep under medical supervision for at least 48 hours.



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*** SECTION 5: Firefighting measures**

5.1 Extinguishing media

Suitable extinguishing media

alcohol resistant foam
Extinguishing powder
Carbon dioxide (CO₂)
Water spray jet

Unsuitable extinguishing media

none

5.2 Special hazards arising from the substance or mixture

Hazardous combustion products

In case of fire formation of dangerous gases possible.
In the event of fire the following can be released:
Nitrogen oxides (NO_x)
Carbon monoxide
Phosphorus oxides

*** 5.3 Advice for firefighters**

- * Special protective equipment for firefighters**
Do not inhale explosion and combustion gases.

*** SECTION 6: Accidental release measures**

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Use personal protection equipment.
Special danger of slipping by leaking/spilling product.

For emergency responders

Personal protection equipment
Use personal protection.
Forms slippery surfaces with water.
Special danger of slipping by leaking/spilling product.

6.2 Environmental precautions

Do not allow to enter into surface water or drains.
Do not allow to enter into soil/subsoil.

6.3 Methods and material for containment and cleaning up

For containment

Suitable material for taking up:
Sand
Sawdust
Universal binder
Kieselguhr
Flush away residues with water.

*** 6.4 Reference to other sections**

Safe handling: see section 7
Personal protection equipment: see section 8



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*** SECTION 7: Handling and storage**

*** 7.1 Precautions for safe handling**

*** Protective measures**
Handle and open container with care.
Do not inhale aerosols
Avoid contact with eyes and skin.
The product is not combustible.

Advices on general occupational hygiene
Make available sufficient washing facilities
Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Suitable floor material:
Alkali-resistant
Keep/Store only in original container.

Storage class

12 non-combustible liquids that cannot be assigned to any of the above storage classes

Materials to avoid

Do not store together with:
Acid

Further information on storage conditions

Keep locked up and out of reach of children.
Protect from heat and direct solar radiation.
Do not keep at temperatures below 5°C.
Do not keep at temperatures above 30°C.
Storage time: 4 years.

7.3 Specific end use(s)

Recommendation
no further

*** SECTION 8: Exposure controls/personal protection**

*** 8.1 Control parameters**

*** Occupational exposure limit values**

CAS No.	EC No.	Substance name	occupational exposure limit value
71-23-8	200-746-9	Propan-1-ol	10 [ml/m ³ (ppm)] (IE)
1310-73-2	215-185-5	Sodium hydroxide	Short-term(mg/m ³) 2 (1) (1) 15 minutes reference period (IE)
71-23-8	200-746-9	Propan-1-ol	200 [ml/m ³ (ppm)] 500 [mg/m ³] Short-term(ml/m ³) 250 Short-term(mg/m ³) 625 (UK)
1310-73-2	215-185-5	Sodium hydroxide	Short-term(mg/m ³) 2 (UK)

*** DNEL worker**

CAS No.	Substance name	DNEL value	DNEL type	Remark
1310-73-2	sodium hydroxide	1 mg/m ³	long-term inhalative (local)	Assessment factor 1
71-23-8	n-propanol	136 mg/kg bw/day	long-term dermal (systemic)	
71-23-8	n-propanol	268 mg/m ³	long-term inhalative (systemic)	Assessment factor 7.5



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CAS No.	Substance name	DNEL value	DNEL type	Remark
7778-53-2	tripotassium orthophosphate	23.09 mg/m ³	long-term inhalative (systemic)	Assessment factor 50
584-08-7	potassium carbonate	10 mg/m ³	long-term inhalative (local)	

*

PNEC

CAS No.	Substance name	PNEC Value	PNEC type	Remark
71-23-8	n-propanol	6.83 mg/L	aquatic, freshwater	Assessment factor 10
71-23-8	n-propanol	96 mg/L	sewage treatment plant (STP)	Assessment factor 100

8.2 Exposure controls

Personal protection equipment

Eye/face protection
tightly fitting goggles

Hand protection

Gloves (alkali-resistant)
Glove material specification [make/type, thickness, permeation time/life]: Butyl, 0,5mm, >=8h.
Glove material specification [make/type, thickness, permeation time/life]: NBR, 0,35mm, >=8h.
Glove material specification [make/type, thickness, permeation time/life]: FKM, 0,4mm, >=8h.

Environmental exposure controls

Technical measures to prevent exposure

Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.
Avoid penetration into the subsoil/soil.
Do not discharge into surface waters.

* **Additional information**

Occupational exposure limits for sodium hydroxide.
Occupational exposure limits of n-propanol.

* **SECTION 9: Physical and chemical properties**

* **9.1 Information on basic physical and chemical properties**

Physical state
liquid

Colour
colourless up to yellowish

Odour
characteristic

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			1-propanol: 0.075 - 150 mg/m ³ (0.03 - 60 ppm).
Melting point/freezing point	solidifying range		not determined
Boiling point or initial boiling point and boiling range	≥ 100 °C		
flammability	solid		not applicable
flammability	gaseous		not applicable
Lower and upper explosion limit	Upper explosion limit 13.5 Vol-%		Value of 1-propanol.



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	Value	Method	Source, Remark
Lower and upper explosion limit	Lower explosion limit 2.1 Vol-%		Value of 1-propanol.
Flash point	52 °C	DIN EN ISO 13736	Does not maintain the combustion.
Auto-ignition temperature	360 °C		Value of 1-propanol.
Decomposition temperature	≥ 100 °C		
pH	in delivery state approx. 12.5 (20°C)		
Viscosity	dynamic 1.6 mPa*s (20°C)		
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	0.34		Value of 1-propanol.
Vapour pressure	approx. 24 hPa (20°C)		
Density and/or relative density	1.078 g/cm ³ (20°C)		
Relative vapour density	2.07		Value of 1-propanol.
particle characteristics			not applicable (liquid).

* **9.2 Other information**

* **Information with regard to physical hazard classes**

* **Explosives**

* **Assessment/classification**

The mixture does not contain any explosive substances (CLP I 2.1.4.3 a).
CLP I 2.1.4.3 a: The classification procedure needs not to be applied because there are no chemical groups present in the molecule which are associated with explosive properties.

* **flammable gases**

* **Assessment/classification**
not applicable (liquid).

* **Aerosols**

* **Assessment/classification**
not relevant - no aerosol.
The classification criteria for this hazard class are not met by definition.

* **Oxidising gas**

* **Assessment/classification**
not applicable (liquid).

* **Gases under pressure**

* **Assessment/classification**
not applicable (liquid - no dissolved gas).

* **flammable liquids**

* **Assessment/classification**
Flash point > 35 °C, does not maintain the combustion.
The mixture is not classified as flammable liquids.

* **flammable solids**

* **Assessment/classification**
not applicable (liquid).



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* **Self-reactive substances and mixtures**

* **Assessment/classification**

The mixture does not contain any self-reactive substances (CLP I 2.8.4.2 a).
CLP I 2.8.4.2 a: There are no chemical groups present in the molecule associated with explosive or self reactive properties.

* **Pyrophoric liquids**

* **Assessment/classification**

The mixture does not contain any pyrophoric substances - not spontaneously flammable (CLP I 2.9.4.1).
CLP I 2.9.4.1: The classification procedure for pyrophoric liquids need not be applied when experience in manufacture or handling shows that the substance or mixture does not ignite spontaneously on coming into contact with air at normal temperatures (i.e. the substance is known to be stable at room temperature for prolonged periods of time (days)).

* **Pyrophoric solids**

* **Assessment/classification**

not applicable (liquid).

* **self-heating substances and mixtures**

* **Assessment/classification**

The mixture does not contain any self-heating substances.

* **Substances or mixtures which, in contact with water, emit flammable gases**

* **Assessment/classification**

not relevant - in contact with water releases no flammable gases (CLP I 2.12.4.1).
CLP I 2.12.4.1: The classification procedure for this class need not be applied if: (a) the chemical structure of the substance or mixture does not contain metals or metalloids; or (b) experience in production or handling shows that the substance or mixture does not react with water, e.g. the substance is manufactured with water or washed with water; or (c) the substance or mixture is known to be soluble in water to form a stable mixture.

* **Oxidising liquids**

* **Assessment/classification**

The mixture does not contain any oxidising substances.

* **Oxidising solids**

* **Assessment/classification**

not applicable (liquid).

* **Organic peroxides**

* **Assessment/classification**

The mixture does not contain any organic peroxides.

* **Corrosive to metals**

Safety characteristics

	Value	Method, Result	Source, Remark
Corrosion rate (mm aluminium/year)	> 6.25 mm/a	Expert judgement and weight of evidence determination.	
Corrosion rate (mm steel/year)			not available

* **Assessment/classification**

The mixture is classified as corrosive to metals (Met. Corr. 1 H290).

* **Desensitised explosives**

* **Assessment/classification**

The mixture does not contain any desensitised explosive substances.

Other safety characteristics

	Value	Method	Source, Remark
Evaporation rate			Water: 0.36 (ASTM D3539).



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	Value	Method	Source, Remark
Evaporation rate			1-propanol: 0.89 (ASTM D3539) / 16 (DIN 53170) .
Solvent content	< 5 %		
Explosive properties			none
Oxidising properties			none

* **Other information**
No further relevant informations available.

* **SECTION 10: Stability and reactivity**

* **10.1 Reactivity**

Exothermic reaction with:
Acid
No further hazardous reactions known if used as directed.

10.2 Chemical stability

Stable at ambient temperature.

10.3 Possibility of hazardous reactions

Reactions with strong acids.

10.4 Conditions to avoid

Heat and direct solar radiation.

10.5 Incompatible materials

Reactions with strong acids.
Corrodes aluminium.

10.6 Hazardous decomposition products

No decomposition if used as directed.

* **SECTION 11: Toxicological information**

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

* **Acute toxicity**

* **Animal data**

	Effective dose	Method, Evaluation	Source, Remark
Acute oral toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute dermal toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute inhalation toxicity	Acute inhalation toxicity (vapour) > 50 mg/L CAS No.71-23-8 n-propanol Acute inhalation toxicity (vapour) LC50: > 33.8 mg/L Species Rat Exposure time 4 h	ATE: Acute Toxicity Estimate	

* **Assessment/classification**
Based on available data, the classification criteria are not met.



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* **Skin corrosion/irritation**

Animal data

Result / Evaluation	Method	Source, Remark
Irritant.	Expert judgement and weight of evidence determination.	

* **Serious eye damage/irritation**

Animal data

Result / Evaluation	Method	Source, Remark
Risk of serious damage to eyes.	Calculation method.	

* **Sensitisation to the respiratory tract**

* **Assessment/classification**
Based on available data, the classification criteria are not met.

* **Skin sensitisation**

Animal data

Result / Evaluation	Dose / Concentration	Method	Source, Remark
The mixture is not classified as skin sensitiser.		Calculation method.	

* **Germ cell mutagenicity**

* **Assessment/classification**
Based on available data, the classification criteria are not met.

* **Carcinogenicity**

* **Assessment/classification**
Based on available data, the classification criteria are not met.

* **Reproductive toxicity**

* **Assessment/classification**
Based on available data, the classification criteria are not met.

* **Overall Assessment on CMR properties**

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.

* **STOT-single exposure**

* **STOT SE 1 and 2**

* **Assessment/classification**
The mixture is not classified as specific target organ toxicant (single exposure).
Based on available data, the classification criteria are not met.

* **STOT SE 3**

* **Irritation to respiratory tract**

* **Assessment/classification**
Based on available data, the classification criteria are not met.

* **Narcotic effects**

* **Assessment/classification**
Based on available data, the classification criteria are not met.

* **STOT-repeated exposure**

* **Assessment/classification**
The mixture is not classified as specific target organ toxicant (repeated exposure).
Based on available data, the classification criteria are not met.



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* **Aspiration hazard**

* **Assessment/classification**

The mixture is not classified as aspiration hazardous.
Based on available data, the classification criteria are not met.

11.2 Information on other hazards

Symptoms related to the physical, chemical and toxicological characteristics

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			The product does not contain any substances with endocrine-disrupting properties $\geq 0.1\%$.

* **Other information**

Test on similar mixture (EC 10, Batch 2016-50 2021-50 12): OECD 435: not corrosive to skin.

* **SECTION 12: Ecological information**

* **12.1 Toxicity**

* **Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: > 250 mg/L	calculated.	
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 > 350 mg/L	calculated.	
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	EC50 29 mg/L	calculated.	After neutralisation, reduction in toxic effects is observed.
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

* **Assessment/classification**

Harmful to aquatic life.

* **12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation	Degradation rate > 70 %	calculated	DOC reduction Biodegradable.
Biodegradation	Degradation rate 100 %	Neutralization, pH-measurement	Alkaline properties can be eliminated up to 100% by neutralization.
Biodegradation			CAS No.1310-73-2 sodium hydroxide
Biodegradation	Degradation rate 83- 92 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	Inorganic product which is not eliminable from water through biological cleaning processes. CAS No.71-23-8 n-propanol



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	Value	Method	Source, Remark
Biodegradation			CAS No.7778-53-2 tripotassium orthophosphate Inorganic product which is not eliminable from water through biological cleaning processes.
Biodegradation			CAS No.584-08-7 potassium carbonate Inorganic product which is not eliminable from water through biological cleaning processes.

* **12.3 Bioaccumulative potential**

* **Assessment/classification**
potassium carbonate: No bioaccumulation.
tripotassium orthophosphate: not available.
1-propanol: Accumulation in organisms is not expected (log Pow: 0.34).
sodium hydroxide: No bioaccumulation.

* **12.4 Mobility in soil**

* **Assessment/classification**
potassium carbonate: Adsorption on soil is not expected.
tripotassium orthophosphate: not available.
1-propanol: Adsorption on soil is not expected.
sodium hydroxide: Mobile in an aqueous ambience.

12.5 Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

12.6 Endocrine disrupting properties

	Effective dose	Method,Evaluation	Source, Remark
Endocrine disrupting properties			The product does not contain any substances with endocrine-disrupting properties >=0.1%.

12.7 Other adverse effects

	Value	Method	Source, Remark
Ozone depletion potential (ODP):			Based on available data, the classification criteria are not met.

* **Additional ecotoxicological information**

	Value	Method	Source, Remark
Chemical oxygen demand (COD)	110 mgO2/g	calculated.	
AOX			The product does not contain any organically bound halogens according to the recipe.

Additional information

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.
Acute aquatic environmental hazards: Aquatic Acute 3 H402: Harmful to aquatic life. After neutralization: not classified as acute hazardous to the aquatic environment.
The mixture is not classified as chronic hazardous to the aquatic environment.
Do not allow uncontrolled discharge of product into the environment.
No further relevant informations available.



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*** SECTION 13: Disposal considerations**

*** 13.1 Waste treatment methods**

*** Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
200129 *	detergents containing hazardous substances

Waste code packaging	Waste name
150110 *	packaging containing residues of or contaminated by hazardous substances

Appropriate disposal / Product

Do not dispose with household waste.

Suitable for neutralization are acetic acid (60%, liquid) or citric acid (solid powder, crystallized) if a stainless steel bath is used.

Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.

*** Appropriate disposal / Package**

Non-contaminated packages may be recycled.

Handle contaminated packages in the same way as the substance itself.

SECTION 14: Transport information

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
14.1 UN number or ID number	UN 1824	UN 1824	UN 1824
14.2 UN proper shipping name	SODIUM HYDROXIDE SOLUTION	SODIUM HYDROXIDE SOLUTION	Sodium hydroxide solution
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	III	III	III
14.5 Environmental hazards	No	No	No

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments

not relevant

Land transport (ADR/RID)

UN number or ID number	UN 1824
UN proper shipping name	SODIUM HYDROXIDE SOLUTION
Transport hazard class(es)	8
Hazard label(s)	8
Classification code	C5
Packing group	III
Environmental hazards	No
Limited quantity (LQ)	5 L
Special provisions	-
Tunnel restriction code	E



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Sea transport (IMDG)

UN number or ID number UN 1824
UN proper shipping name SODIUM HYDROXIDE SOLUTION
Transport hazard class(es) 8
Packing group III
Environmental hazards No
Limited quantity (LQ) 5 L
Marine pollutant No
EmS F-A, S-B

Air transport (ICAO-TI / IATA-DGR)

UN number or ID number UN 1824
UN proper shipping name Sodium hydroxide solution
Transport hazard class(es) 8
Packing group III
Environmental hazards No

*** SECTION 15: Regulatory information**

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

*** EU legislation**

Authorisations
not relevant

*** Restrictions on use**
Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 + 40 - not relevant if used as directed.
Regulation (EC) No 1907/2006 (REACH), Annex XVII No 75 - not relevant if used as directed.

*** Restrictions of occupation**
Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).

*** Other regulations (EU)**

To follow:
Regulation (EC) No. 648/2004 (Detergents regulation)
Directive 2012/18/EU, Annex I: not mentioned.

*** Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**
VOC content, delivery state $\leq 3\%$

15.2 Chemical Safety Assessment

*** National regulations**

For this mixture a chemical safety assessment were not carried out.



EC 10

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*** SECTION 16: Other information**

*** Abbreviations and acronyms**

For abbreviations and acronyms, see: ECHA Guidance on information requirements and chemical safety assessment, chapter R.20 (Table of terms and abbreviations).

ADR: European Agreement concerning the International Carriage of Dangerous Goods by Road

ASTM: American Society for Testing and Materials

ATE: Acute Toxicity Estimate

AVV: Waste Shipment Ordinance (DE)

DGR: Dangerous Goods Regulations (IATA)

DIN: German Institute for Standardization / German Industrial Standard

DNEL: derived no-effect level

DOC: Dissolved Organic Carbon

EmS: emergency procedures

EN: European Standard

IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization

ISO: International Organization for Standardization

JArbSchG: Youth Labor Protection Act (DE)

OECD: Organisation for Economic Cooperation and Development

PBT: persistent and bioaccumulative and toxic

PNEC: Predicted No Effect Concentration

RID: Dangerous goods regulations for transport by rail

SCL: Specific concentration limit

TI: Technical Instruction

TRGS: Technical Rules for Hazardous Substances

VOC: Volatile organic compounds

vPvB: very persistent, very bioaccumulative

Key literature references and sources for data

Own measurements.

European Chemicals Agency, <http://echa.europa.eu/>.

Informations from our suppliers.

Additional information

National and local regulations concerning chemicals shall be observed.

These data are given according to our actual knowledge about this product. This data sheet does not correspond to an assurance by virtue of a contract for properties of the product.

Relevant H- and EUH-phrases (Number and full text)

H225	Highly flammable liquid and vapour.
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.
H336	May cause drowsiness or dizziness.

Indication of changes

* Data changed compared with the previous version