

elma clean 270 dip&splash (EC 270 d&s)

06.12.2022 15.09.2022 Print date Revision date 1.7 (en) Version 16.11.2021 (1.6) replaces version of

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

* 1.1 Product identifier

Trade name/designation elma clean 270 dip&splash (EC 270 d&s)

UFI: 4J60-N078-8000-3MFS **Unique Formula Identifier**

Product category PC-CLN-OTH Other cleaning, care and maintenance products

(excludes biocidal products)

Hazard components

C10- fatty alcohol, alkoxylated, isotridecanol, ethoxylated, potassium hydroxide

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

Sector of uses [SU]

SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 Industrial uses

Process categories [PROC]

PROC7 Industrial spraying
PROC8a Transfer of substance or mixture (charging and discharging) at non- dedicated facilities

PROC9 Transfer of substance or mixture into small containers (dedicated filling line, including weighing)

PROC13 Treatment of articles by dipping and pouring

PROC11 Non industrial spraying

Environmental release categories [ERC]

ERC8a Widespread use of non-reactive processing aid (no inclusion into or onto article, indoor)

ERC8b Widespread use of reactive processing aid (no inclusion into or onto article, indoor)

ERC6b Use of reactive processing aid at industrial site (no inclusion into or onto article)

Product Categories [PC]

PC35 Washing and cleaning products

Use of the substance/mixture

Alkaline foam-inhibited cleaning concentrate for hard surfaces in industry and laboratory.

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 Website www.elma-ultrasonic.com

Department responsible for information:

Chemie/Labor: Email: chemlab@elma-ultrasonic.com

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

Met. Corr. 1, H290 Expert judgement and weight of evidence determination.

Skin Irrit. 2, H315 Calculation method. Calculation method. Eye Dam. 1, H318



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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

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

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 P102 Keep out of reach of children.

P234 Keep only in original packaging.

P261 Avoid breathing mist/spray.

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 - 15% amphoteric surfactants

5 - 15% non-ionic surfactants

< 5% phosphates

< 5% polycarboxylates

2.3 Other hazards

Adverse human health effects and symptoms
Acute Tox. 5 (oral + inhalation) H303 + H333: May be harmful if swallowed or if inhaled.

Inhalation of spray may be harmful and may cause respiratory irritation.

This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Adverse environmental effects
Aquatic Acute 2 H401: Toxic to aquatic life.

This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

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



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3.2 Mixtures

Hazardous ii	ngredients				
CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
7320-34-5	230-785-7	tetrapotassium pyrophosphate	< 5 weight-%	Eye Irrit. 2; H319	
166736-08-9		C10- fatty alcohol, alkoxylated	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	
69011-36-5	931-138-8	isotridecanol, ethoxylated	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	Eye Dam. 1;H318: C>10% Eye Irrit. 2;H319: 1% <c<=10%< td=""></c<=10%<>
1310-58-3	215-181-3	potassium hydroxide	< 2 weight-%	Met. Corr. 1 ; H290 Acute Tox. 3; H301 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%
27458-92-0	248-469-2	isotridecanol	< 0.2 weight-%	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=1 (Aquatic Acute 1) M=1 (Aquatic Chronic 1)
REACH No.		Substance name			
Not relevant (C10- fatty alcohol, alkoxylated			
Not relevant		isotridecanol, ethoxylated			
01-21194893		tetrapotassium pyrophosphate			
01-21194871		potassium hydroxide			
Not relevant (impurity).		isotridecanol			

Additional informationAqueous alkaline foam-inhibited mixture of amphoteric and non-ionic surfactants, complexing agents, phosphates, potassium hydroxide and dye.

* SECTION 4: First aid measures

* 4.1 Description of first aid measures

Following inhalation Provide fresh air.

In case of inhaling spray mist, consult a physician.
In the event of symptoms refer for medical treatment.



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Following skin contact

In case of contact with skin wash off with 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.

Medical treatment necessary.

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

No further informations available.

* SECTION 5: Firefighting measures

5.1 Extinguishing media

Suitable extinguishing media

Water

Foam

Extinguishing powder

Carbon dioxide (CO2)

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 (NOx)

Carbon monoxide

Phosphorus oxides

5.3 Advice for firefighters

Special protective equipment for firefighters

Do not inhale explosion and combustion gases.

* Additional information

Co-ordinate fire-fighting measures to the fire surroundings.

The product itself does not burn.

* SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

For non-emergency personnelUse personal protection equipment.
Special danger of slipping by leaking/spilling product.

For emergency responders Personal protection equipment

Use personal protection.

Use breathing apparatus if exposed to vapours/dust/aerosol.

Forms slippery surfaces with water.

Special danger of slipping by leaking/spilling product.



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6.2 Environmental precautions

Do not allow to enter into surface water or drains.

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.

After taking up the material dispose according to regulation.

* 6.4 Reference to other sections

Safe handling: see section 7

Personal protection equipment: see section 8

* SECTION 7: Handling and storage

7.1 Precautions for safe handling

Protective measures

Handle and open container with care.

Take the usual precautions when handling with chemicals.

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

Keep only in unopened original container.

Storage class

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

Materials to avoid

Keep away from: Strong 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: 3 years.

7.3 Specific end use(s)

Recommendation

Do not use the product itself for injecting or spraying. Use only the diluted application solution for splash cleaning.

* SECTION 8: Exposure controls/personal protection

* 8.1 Control parameters

Occupational exposure limit values

CAS No.	EC No.	Substance name	occupational exposure limit value
1310-58-3	215-181-3	Potassium hydroxide	Short-term(mg/m³) 2 (1) 15 minutes reference period (IE)



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CAS No. EC No. Substance name occupational exposure limit value 1310-58-3 215-181-3 Potassium hydroxide Short-term(mg/m3) 2 (UK)

DNEL worker

CAS No.	Substance name	DNEL value	DNEL type	Remark
1310-58-3	potassium hydroxide	1 ma/m³	long-term inhalative (local)	Assessment factor 1

8.2 Exposure controls

Appropriate engineering controls

Technical measures to prevent exposure

Technical exhaustion in case of longtermed exposition in sprayed aerosols.

Personal protection equipment

Eye/face protection tightly fitting goggles

Hand protection

chemical-resistant gloves

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. Glove material specification [make/type, thickness, permeation time/life]: NR, 0,5mm, >=8h.

Respiratory protection

Respiratory protection necessary at:

aerosol or mist formation

Suitable respiratory protection apparatus:

Short term: filter apparatus, Filter P2

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 potassium hydroxide.

* SECTION 9: Physical and chemical properties

* 9.1 Information on basic physical and chemical properties

Physical state

liquid

Colour

dark green

Odour

mild

Safety relevant basis data

	Value	Method	Source, Remark
Odour threshold:			not determined
Melting point/freezing point	solidifying range		not determined
Boiling point or initial boiling point and boiling range	≥ 100 °C		
flammability	solid		not relevant



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	Value	Method	Source, Remark
flammability	gaseous		not relevant
Lower and upper explosion limit	Upper explosion limit		not relevant
Lower and upper explosion limit	Lower explosion limit		not relevant
Flash point			No flash point up to 100 °C.
Auto-ignition temperature	230 °C		Value of isotridecanol.
Decomposition temperature	≥ 100 °C		
рН	in delivery state 11.4		
Viscosity	dynamic 7.8 mPa*s (20°C)		
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	approx2		Value of tetrapotassium pyrophosphate.
Vapour pressure	approx. 23 hPa (20°C)		
Density and/or relative density	approx. 1.08 g/cm³		
Relative vapour density	0.62		Value of Water.
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

not flammable, not combustible (No flash point below 100°C).



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flammable solids

* Assessment/classification

not applicable (liquid).

* 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.



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Other safety characteristics

	Value	Method	Source, Remark
Evaporation rate			Water: 0.36 (ASTM D3539).
Solvent content	0 %		
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.

Reactions with light metals, with evolution of hydrogen.

10.4 Conditions to avoid

Heat and direct solar radiation.

10.5 Incompatible materials

Reactions with strong acids. Oxidising agent, strong 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	3937 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No.1310-58-3 potassium hydroxide LD50: 273 mg/kg Species Rat		
	CAS No.69011-36-5 isotridecanol, ethoxylated 500 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No.166736-08-9 C10- fatty alcohol, alkoxylated 500 mg/kg	ATE: Acute Toxicity Estimate	
Acute dermal toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	



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Effective dose Method, Evaluation Source, Remark Acute inhalation toxicity ATE: Acute Toxicity Acute inhalation toxicity (dust/mist) Estimate 5.6 mg/L

> Acute inhalation toxicity (vapour)

not relevant

Assessment/classification

May be harmful if swallowed or if inhaled.

Skin corrosion/irritation

Animal data

Result / Evaluation Method Source, Remark Irritant. Calculation method.

Serious eye damage/irritation

Animal data

Result / Evaluation Method Source, Remark Irritant. 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
not sensitising.		Calculation method	d.

Germ cell mutagenicity

Assessment/classification

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

Carcinogenicity

Assessment/classificationBased 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

Other information

Inhalation of spray may cause respiratory irritation.



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

Aspiration hazard

Assessment/classificationThe 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			This product does not contain a substance that has endocrine disrupting properties with respect to humans as no components meets the criteria.

Other information

Has degreasing effect on the skin.

* SECTION 12: Ecological information

* 12.1 Toxicity

* Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 11.6 mg/L	calculated.	
	CAS No.27458-92-0 isotridecanol LC50: 0.55 mg/L Species Danio rerio (zebrafish) Test duration 96 h	OECD 203	
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 9.7 mg/L	calculated.	
	CAS No.27458-92-0 isotridecanol EC50 0.391 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	
Chronic (long-term) toxicity to aquatic invertebrate	CAS No.27458-92-0 isotridecanol NOEC 0.0036 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
Acute (short-term) toxicity to algae and cyanobacteria	EC50 7 mg/L	calculated.	



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Effective dose Method, Evaluation Source, Remark CAS No.27458-92-0 **OECD 201** isotridecanol EC50 0.297 mg/L Species Desmodesmus subspicatus Test duration 72 h Chronic (long-term) toxicity to not determined aquatic algae and cyanobacteria Toxicity to other aquatic not determined plants/organisms Toxicity to microorganisms not determined

Assessment/classification

Toxic to aquatic life.

* 12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate ≥ 65 %	calculated	DOC reduction Moderately/partially biodegradable.
Biodegradation	Degradation rate 100 %	Neutralization, pH- measurement	Alkaline properties can be eliminated up to 100% by neutralization.
Biodegradation			CAS No.1310-58-3 potassium hydroxide
			Inorganic product which is not eliminable from water through biological cleaning processes.
Biodegradation			CAS No.7320-34-5 tetrapotassium pyrophosphate
			Inorganic product which is not eliminable from water through biological cleaning processes.
Biodegradation	Degradation rate > 60 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No.69011-36-5 isotridecanol, ethoxylated
Biodegradation	Degradation rate > 60 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No.166736-08-9 C10- fatty alcohol, alkoxylated
Biodegradation	Degradation rate 90- 100 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	CAS No.27458-92-0 isotridecanol

12.3 Bioaccumulative potential

Assessment/classification

tetrapotassium pyrophosphate: Bioaccumulation is improbable.
C10- fatty alcohol, alkoxylated: Accumulation in organisms is not expected. isotridecanol, ethoxylated: Bioaccumulation is improbable. potassium hydroxide: Accumulation in organisms is not expected. isotridecanol: Has the potential to bioaccumulate (log Pow: 5.57).

12.4 Mobility in soil

Assessment/classification

tetrapotassium pyrophosphate: moderately mobile in soil (Koc: ~150). C10- fatty alcohol, alkoxylated: Adsorption on soil is possible. isotridecanol, ethoxylated: Koc: >5000, strong adsorption on soil, immobile. potassium hydroxide: Dissolves in water. Highly mobile in soil. isotridecanol: not available.



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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 This product does not contain a substance that has endocrine disrupting properties with respect to non-target organisms as no components meets the criteria.

* 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

Chemical oyxgen demand (COD) approx. 355 mgO2/g calculated. AOX The product does not contain any organically

Method

bound halogens according

Source, Remark

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 2 H401: Toxic to aquatic life.

Value

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.

* 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	g 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

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.



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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 1814	UN 1814	UN 1814
14.2 UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION	Potassium 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 1814

UN proper shipping name POTASSIUM 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

Sea transport (IMDG)

UN number or ID number UN 1814

UN proper shipping name POTASSIUM 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 1814

UN proper shipping name Potassium hydroxide solution

Transport hazard class(es) 8
Packing group III
Environmental hazards No



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* 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 - 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 0 %

15.2 Chemical Safety Assessment

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

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)

DNEL: derived no-effect level

DOC: Dissolved Organic Carbon

EmS: emergency procedures IATA: International Air Transport Association

ICAO: International Civil Aviation Organization

IMDG: International Maritime Dangerous Goods

IMO: International Maritime Organization
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.



elma clean 270 dip&splash (EC 270 d&s)
Print date 06.12.2022
Revision date 15.09.2022
Version 1.7 (en)
replaces version of 16.11.2021 (1.6)

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

H290	May be corrosive to metals.
H301	Toxic if swallowed.
H302	Harmful if swallowed.
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.

Indication of changes
* Data changed compared with the previous version