

elma clean 124 (FC 124)

21.07.2022
18.07.2022
1.8 (en)
06.12.2021 (1.7)

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

\* 1.1 Product identifier

Trade name/designation	elma clean 124 (EC 124)
Unique Formula Identifier	UFI:7Q60-N0M1-V000-E9MW
Product category	PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

Hazard components for labelling potassium hydroxide, decan-1-ol, ethoxylated, cocosfattyaminoxethylate

#### 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

#### Use of the substance/mixture

Alkaline demulgating cleaning concentrate for metal and plastic surfaces for use in immersion and ultrasonic baths, suitable for membrane filtration.

**Uses advised against** Do not use for injecting or spraying.

#### 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

Department responsible for information: Chemie/Labor: Email: chemlab@elma-ultrasonic.com Website www.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 Regulation (EC) No 1272/2008 [CLP]	Classification procedure
Met. Corr. 1, H290	Expert judgement and weight of evidence determination.
Acute Tox. 4, H302	Calculation method.
Skin Corr. 1A, H314	Calculation method.
Eye Dam. 1, H318	Calculation method.

#### Hazard statements for physical hazards H290 May be corrosive to metals.

#### Hazard statements for health hazards

H302 Harmful if swallowed.

H314 Causes severe skin burns and eye damage.

H318 Causes serious eye damage.



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Hazard pictograms



#### \* 2.2 Label elements

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

Signal word Danger

#### **Hazard statements**

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

H314 Causes severe skin burns and eye damage.

#### **Precautionary statements**

P405 Store locked up. P102 Keep out of reach of children. P234 Keep only in original packaging. P260 Do not breathe mist/spray. P280 Wear protective gloves/protective clothing and eye/face protection. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. 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. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P332 + P313 If skin irritation occurs: Get medical advice/attention.

#### \*

Other labelling Labelling for contents according to regulation (EC) No. 648/2004:

< 5% amphoteric surfactants

5 - 15% non-ionic surfactants 5 - 15% phosphates

#### \* 2.3 Other hazards

#### Adverse human health effects and symptoms

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 i	ingredients				
CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
1310-58-3	215-181-3	potassium hydroxide	10 - 20 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 Irrit. 2;H319: 0.5%<=C<2%
7320-34-5	230-785-7	tetrapotassium pyrophosphate	5 - 15 weight-%	Eye Irrit. 2; H319	
102-71-6	203-049-8	triethanolamine [2,2',2''- nitrilotriethanol]	5 - 15 weight-%		
26183-52-8		decan-1-ol, ethoxylated	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	
61791-14-8		cocosfattyaminoxethylate	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318 Aquatic Chronic 3; H412	
REACH No.		Substance name			
01-2119487	136-33	potassium hydroxide			
01-21194893	369-18	tetrapotassium pyrophosphate			
01-21194864	482-31	triethanolamine [2,2',2''-nitrilotrie	ethanol]		
Not relevant	(polymer).	cocosfattyaminoxethylate			
Not relevant	(polymer).	decan-1-ol, ethoxylated			

#### Additional information

Alkaline aqueous cleaning concentrate with potassium hydroxide, phosphates, amphoteric and nonionic tensides and salts of organic acids.

#### \* SECTION 4: First aid measures

#### \* 4.1 Description of first aid measures

**General information** Remove contaminated, saturated clothing immediately. Symptoms may develop several hours following exposure; medical observation therefore necessary for at least 48 hours.

#### **Following inhalation**

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

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.



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**Following ingestion** 

Do NOT induce vomiting. Call a physician immediately. Rinse mouth immediately and drink plenty of water.

#### \* 4.2 Most important symptoms and effects, both acute and delayed

Effects

Risk of stomach perforation.

#### \* 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.

#### **SECTION 5: Firefighting measures**

#### 5.1 Extinguishing media

Suitable extinguishing media Water

#### 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

#### 5.3 Advice for firefighters

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

#### Additional information

The product itself does not burn. Co-ordinate fire-fighting measures to the fire surroundings. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations.

#### **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

Remove persons to safety. 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.

#### **6.2 Environmental precautions**

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



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#### 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. Use chemical neutralizers. 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**

Avoid: generation/formation of aerosols Do not inhale aerosols Handle and open container with care. Use only alkali-resistant equipment. When diluting/dissolving, always have the water ready first, then slowly stir in the product. The product is not combustible.

## Advices on general occupational hygiene Make available sufficient washing facilities

Remove contaminated, saturated clothing immediately. 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. Keep container tightly closed.

#### Storage class

8B Non-combustible corrosive substances

#### 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: 3 years.

#### 7.3 Specific end use(s)

Recommendation See section 1.2



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#### **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)
102-71-6	203-049-8	Triethanolamine	5 [mg/m³] (IE)
1310-58-3	215-181-3	Potassium hydroxide	Short-term(mg/m³) 2 (UK)

#### **DNEL** worker

CAS No. 1310-58-3	Substance name potassium hydroxide	DNEL value 1 mg/m³	DNEL type Remark long-term inhalative (local)
102-71-6	triethanolamine [2,2',2''- nitrilotriethanol]	1 mg/m³	long-term inhalative (local)
102-71-6	triethanolamine [2,2',2''- nitrilotriethanol]	7.5 mg/kg bw/o	lay long-term dermal (systemic)
PNEC			
CAS No.	Substance name	PNEC Value	PNEC type Remark
7320-34-5	tetrapotassium pyrophosphate	0.05 mg/L	aquatic, freshwater
7320-34-5	tetrapotassium pyrophosphate	50 mg/L	sewage treatment plant (STP)
102-71-6	triethanolamine [2,2',2''- nitrilotriethanol]	0.32 mg/L	aquatic, freshwater
102-71-6	triethanolamine [2,2',2''- nitrilotriethanol]	10 mg/L	sewage treatment plant (STP)

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

## Body protection: Required properties:

alkali-resistant

### **Respiratory protection**

Respiratory protection necessary at: aerosol or mist formation Suitable respiratory protection apparatus: Short term: filter apparatus, Filter P3

#### **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.



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#### Additional information

Occupational exposure limits for triethanolamine. 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 yellowish - brown

Odour characteristic

#### Safety relevant basis data

Odour threshold: Melting point/freezing point so	blidifying range 0 °C 100 °C	not determined
Melting point/freezing point so	0°C O°O	
	100 °C	
Boiling point or initial boiling point > and boiling range		
flammability so	blid	not applicable
flammability ga	aseous	not applicable
Lower and upper explosion limit U	pper explosion limit	not relevant
Lower and upper explosion limit	ower explosion limit	not relevant
Flash point		No flash point up to 100 °C.
Auto-ignition temperature 32	24 °C	Value of triethanolamine.
Decomposition temperature ≥	100 °C	
	delivery state 4 (20°C)	strong alkaline
Viscosity		not determined
Solubility(ies) W	/ater solubility	miscible
Solubility(ies)		not determined
Partition coefficient n-octanol/water ap (log value)	oprox2	Value of tetrapotassium pyrophosphate.
Vapour pressure ap	oprox. 23 hPa (20°C)	
Density and/or relative density 1.	3 g/cm³ (20°C)	
Relative vapour density 5.	.13	Value of triethanolamine.
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.



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#### \* 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).

#### \* 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.



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Assessment/classification not applicable (liquid).			
Drganic peroxides			
Assessment/classification The mixture does not contain any orga	anic peroxides.		
Corrosive to metals			
Safety characteristics			
	Value	Method, Result	Source, Remark
Corrosion rate (mm aluminium/year)	> 6.25	Expert judgement and weight of evidence determination.	
Corrosion rate (mm steel/year)			not available
<b>Assessment/classification</b> The mixture is classified as corrosive	to metals. (Met. Corr	r. 1 H290).	
	to metals. (Met. Corr	r. 1 H290).	
The mixture is classified as corrosive	·		
The mixture is classified as corrosive Desensitised explosives Assessment/classification	·		
The mixture is classified as corrosive Desensitised explosives Assessment/classification The mixture does not contain any des Dther safety characteristics	·		Source, Remark
The mixture is classified as corrosive Desensitised explosives Assessment/classification The mixture does not contain any des Dther safety characteristics	ensitised explosive	substances.	Source, Remark Water: 0.36 (ASTM D3539).
The mixture is classified as corrosive Desensitised explosives Assessment/classification The mixture does not contain any des Other safety characteristics Evaporation rate	ensitised explosive	substances.	Water: 0.36 (ASTM
The mixture is classified as corrosive Desensitised explosives Assessment/classification The mixture does not contain any des Other safety characteristics Evaporation rate	ensitised explosive s √alue	substances.	Water: 0.36 (ASTM
The mixture is classified as corrosive Desensitised explosives Assessment/classification The mixture does not contain any des Other safety characteristics Evaporation rate Solvent content	ensitised explosive s √alue	substances.	Water: 0.36 (ASTM D3539).

## \* 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

Exothermic reaction with: Acid 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. Corrodes aluminium.



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#### 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	1231 mg/kg	ATE (acute toxicity estimate)	
	CAS No.1310-58-3 potassium hydroxide LD50: 273 mg/kg Species Rat		
	CAS No.26183-52-8 decan- 1-ol, ethoxylated LD50: 500- 2000 mg/kg Species Rat		
	CAS No.61791-14-8 cocosfattyaminoxethylate LD50: 750 mg/kg Species Rat		
Acute dermal toxicity	> 5000 mg/kg	ATE (acute toxicity estimate)	
Acute inhalation toxicity	Acute inhalation toxicity (vapour)		not relevant
Assessment/classification Harmful if swallowed.			
Skin corrosion/irritation			
Animal data			
Result / Evaluation	Method	Source, Remark	
strongly corrosive.	Calculation method.		
Serious eye damage/irritation			
Animal data			
Result / Evaluation	Method	Source, Remark	
strongly corrosive.	Calculation method.		
Sensitisation to the respiratory trad	ct		
Assessment/classification Based on available data, the cla	assification criteria are not met.		
Skin sensitisation			
Animal data			
Result / Evaluation	Dose / Concentration	Method	Source, Remark
not sensitising.		Calculation method.	
Germ cell mutagenicity			

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



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#### \* 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

#### Other information

The mixture is not classified as specific target organ toxicant (single exposure).

#### \* Assessment/classification

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

#### Other information

The mixture is not classified as specific target organ toxicant (repeated exposure).

#### \* Assessment/classification

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

#### \* Aspiration hazard

Remark

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

#### \* Other information

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Inhalation of spray may cause strong respiratory irritation and may cause damage to mucous membranes/lung. Causes severe burns.



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## \* SECTION 12: Ecological information

\* 12.1 Toxicity

#### \* Aquatic toxicity

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 48.5 mg/L	calculated.	
	CAS No.61791-14-8 cocosfattyaminoxethylate LC50: 2.3 mg/L		
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 32.5 mg/L	calculated.	
	CAS No.61791-14-8 cocosfattyaminoxethylate EC50 4.4 mg/L		
Chronic (long-term) toxicity to aquatic invertebrate	not determined		
Acute (short-term) toxicity to algae and cyanobacteria	EC50 1.9 mg/L	calculated.	After neutralization there is a reduction in the harmfulness from toxic to harmful to aquatic life: EC50(Algae, calculated, after neutralization): 50mg/l.
	CAS No.61791-14-8 cocosfattyaminoxethylate EC50 1.9 mg/L		
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No.61791-14-8 cocosfattyaminoxethylate NOEC: 0.41 mg/L		
	nto Eo. o. ming/E		
Toxicity to other aquatic plants/organisms	not determined		

\* Assessment/classification Toxic to aquatic life.

### \* 12.2 Persistence and degradability

	Value	Method	Source, Remark
Biodegradation	Degradation rate > 80 %	calculated	DOC reduction Biodegradable.
Biodegradation	Degradation rate 100 %	Neutralization, pH- measurement	Alkaline properties can be eliminated up to 100% by neutralization.
Biodegradation			CAS No.1310-58-3 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

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processes.



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	Value	Method	Source, Remark
Biodegradation	Degradation rate 96 % Test duration 19 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No.102-71-6 triethanolamine [2,2',2"- nitrilotriethanol]
Biodegradation	Degradation rate 76 % Test duration 28 d	OECD 302B/ ISO 9888/ EEC 92/69/V, C.9	CAS No.61791-14-8 cocosfattyaminoxethylate
Biodegradation	Degradation rate > 60 %	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No.26183-52-8 decan-1-ol, ethoxylated
Biodegradation	Degradation rate ≥ 90 % Test duration 28 d	OECD 301E/ EEC 92/69/V, C.4-B	CAS No.26183-52-8 decan-1-ol, ethoxylated

#### 12.3 Bioaccumulative potential

#### Assessment/classification tetrapotassium pyrophosphate: Bioaccumulation is improbable. potassium hydroxide: Accumulation in organisms is not expected. cocosfattyaminoxethylate: not available. decan-1-ol, ethoxylated: not available. triethanolamine: Accumulation in organisms is not expected (BCF: <0,4).

#### 12.4 Mobility in soil

Assessment/classification potassium hydroxide: Dissolves in water. Highly mobile in soil. tetrapotassium pyrophosphate: moderately mobile in soil (Koc: ~150). cocosfattyaminoxethylate: not available. decan-1-ol, ethoxylated: not available. triethanolamine: Adsorption on soil is not expected (Koc: 10).

#### 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	on		
	Value	Method	Source, Remark
Chemical oyxgen demand (COD)	277 mgO2/g	calculated	
AOX			The product does not contain any organically bound halogens according to the recipe.



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#### 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. After neutralization: Aquatic Acute 3 H402: Harmful to aquatic life.

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

## Appropriate disposal / Product

Do not dispose with household waste. Neutralize with acetic acid (60%, liquid) or citric acid (solid powder, crystallized). Dispose of waste according to applicable legislation.

#### 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	1814	1814	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	II	II	II
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	1814
UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION
Transport hazard class(es)	8
Hazard label(s)	8
Classification code	C5
Packing group	II
Environmental hazards	No
Limited quantity (LQ)	1 L



#### elma clean 124 (EC 124)

Print date	21.07.2022
Revision date	18.07.2022
Version	1.8 (en)
replaces version of	06.12.2021 (1.7)

Special provisions Tunnel restriction code

#### Sea transport (IMDG)

UN number or ID number	1814
UN proper shipping name	POTASSIUM HYDROXIDE SOLUTION
Transport hazard class(es)	8
Packing group	II
Environmental hazards	No
Limited quantity (LQ)	1 L
Marine pollutant	No
EmS	F-A, S-B

Е

#### Air transport (ICAO-TI / IATA-DGR)

UN number or ID number	1814
UN proper shipping name	Potassium hydroxide solution
Transport hazard class(es)	8
Packing group	II
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 - not relevant if used as directed.

#### \* Restrictions of occupation

According to directive 94/33/EC, juveniles are only allowed to handle this product as long as all effects of dangerous substances are prevented.

#### \* 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

#### **National regulations**

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



#### elma clean 124 (EC 124)

21.07.2022
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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) DNEL: derived no-effect level DOC: Dissolved Organic Carbon 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 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)

- H290 May be corrosive to metals.
- H301 Toxic if swallowed.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H318 Causes serious eye damage.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

#### Indication of changes

\* Data changed compared with the previous version