

No. 1907/2006 (REACH) Printed 09.08.2021

Revision 09.08.2021 (GB) Version 1.4

elma lab clean A10 (ELC A10)

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

1.1. Product identifier

Name of product elma lab clean A10 (ELC A10)
UFI: TM60-40WN-J00G-SY1U

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

Identified uses

Sector of uses [SU]

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

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

! Product categories [PC]

PC35 - Washing and cleaning products

! 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)

Recommended intended purpose(s)

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

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor Elma Schmidbauer GmbH

Gottlieb-Daimler-Str. 17, D-78224 Singen (Htwl.) Phone +49 7731 882-0, Fax +49 7731 882-266

E-Mail info@elma-ultrasonic.com Internet www.elma-ultrasonic.com

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

1.4. Emergency telephone number

Emergency advice Vergiftungs-Informations-Zentrale Freiburg

(Sprache/Language: D, GB) Phone +49 761 19240

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

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

Hazard classes and Hazard Hazard Statements Classification procedure categories

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

Hazard Statements

H290 May be corrosive to metals.



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H315 Causes skin irritation.

H318 Causes serious eye damage.

2.2. Label elements

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



GHS05

Signal word

Danger

Hazard Statements

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

Precautionary Statements

P261 Avoid breathing mist/spray.

P280 Wear protective gloves/eye protection.

P301 + P330 + IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P331

P302 + P352 IF ON SKIN: Wash with plenty of water.

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

P338 present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

P312 Call a POISON CENTER/doctor if you feel unwell.

! Hazardous ingredients for labelling

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

2.3. Other hazards

Acute Tox. 5 (oral + inhalation) H303 + H333: May be harmful if swallowed or if inhaled.

Aquatic Acute 2 H401: Toxic to aquatic life.

Information pertaining to special dangers for human and environment

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

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

Description

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



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Hazardous	ingredients			
CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
166736-08-9		C10- fatty alcohol, alkoxylated	< 5	Acute Tox. 4, H302 / Eye Dam. 1, H318
69011-36-5	931-138-8	isotridecanol, ethoxylated	< 5	Acute Tox. 4, H302 / Eye Dam. 1, H318
1310-58-3	215-181-3	potassium hydroxide	< 2	Met. Corr. 1, H290 / Acute Tox. 3, H301 / Skin Corr. 1A, H314 / Eye Dam. 1, H318
7320-34-5	230-785-7	tetrapotassium pyrophosphate	< 5	Eye Irrit. 2, H319
27458-92-0	248-469-2	isotridecanol	< 0,2	Skin Irrit. 2, H315 / Aquatic Acute 1, H400 M=1 / Aquatic Chronic 1, H410 M=1
REACH				
CAS No	Name			REACH registration number
166736-08-9	C10- fatty ald	cohol, alkoxylated		Not relevant (polymer).
69011-36-5	isotridecanol, ethoxylated			Not relevant (polymer).
1310-58-3	potassium hydroxide			01-2119487136-33
7320-34-5	tetrapotassiu	im pyrophosphate		01-2119489369-18
27458-92-0	isotridecanol			Not relevant (impurity).

SECTION 4: First aid measures

4.1. Description of first aid measures In case of inhalation

Ensure of fresh air.

In case of inhalation of mist seek medical advice.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with water.

Consult a doctor if skin irritation persists.

In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

In case of ingestion

Do not induce vomiting.

Refer to medical treatment.

If swallowed seek medical advice immediately and show the doctor packing or label.

Rinse out mouth and give plenty of water to drink.

4.2. Most important symptoms and effects, both acute and delayed Physician's information / possible symptoms

No further informations available.

4.3. Indication of any immediate medical attention and special treatment needed Treatment (Advice to doctor)

No further informations available.



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SECTION 5: Firefighting measures

5.1. Extinguishing media Suitable extinguishing media

water

Fire-extinguishing activities according to surrounding.

Foam

Dry powder

Carbon dioxide

5.2. Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Phosphorus oxides (e.g. phosphoruspentoxide)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures For non-emergency personnel

Use personal protection.

High risk of slipping due to leakage/spillage of product.

For emergency responders

Use personal protective clothing.

Use personal protection.

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

Forms slippery surfaces with water.

High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and cleaning up

Take up with absorbent material (e.g. sand, sawdust, general-purpose binder, kieselguhr).

Flush away residues with water.

After taking up the material dispose according to regulation.

6.4. Reference to other sections

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Open and handle container with care!

Take the usual precautions when handling with chemicals.

General protective measures

Avoid contact with eyes and skin

Do not inhale aerosols



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Hygiene measures

Provide washing facilities at place of work.

Keep away from food and drink.

Advice on protection against fire and explosion

The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in unopened original container.

Advice on storage compatibility

Keep at distance to strong acids.

Further information on storage conditions

Keep locked up, out of reach of children

Protect from heat and direct solar radiation.

Do not keep at temperatures below 5 ℃.

Do not keep at temperatures above 30 ℃.

Information on storage stability

Storage time: 3 years.

7.3. Specific end use(s)

Recommendation(s) for intended use

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

Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
1310-58-3	Potassium hydroxide	8 hours			R22, 35
		Short-term	2		

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
1310-58-3	potassium hydroxide	1 mg/m3	DNEL long-term inhalative (local)	
PNEC				
CAS No	Substance name	Value	Code	Remark
1310-58-3	potassium hydroxide			No data available
7320-34-5	tetrapotassium pyrophosphate	0,05 mg/l	PNEC aquatic, freshwater	
		50 mg/l	PNEC sewage treatment plant (S	ΓΡ)

! Additional advice

Occupational exposure limits for potassium hydroxide.

8.2. Exposure controls

Respiratory protection

Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, Filter P2

Hand protection

chemical-resistant gloves

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



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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.

Eye protection

tightly fitting goggles

Limitation and surveillance of the environment

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.

Appropriate engineering controls

Technical exhaustion in case of longtermed exposition in sprayed aerosols.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

AppearanceColourOdourliquiddark greenmild

Odour threshold not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	11,4				
boiling range	>= 100 °C				
solidifying range	not determined				
Flash point					No flash point below 100 ℃.
Flammable (solid)	not relevant				
Flammability (gas)	not relevant				
Ignition temperature	not determined				
Self ignition temperature					not spontaneously flammable
Lower explosion limit	not relevant				

Upper explosion limit not relevant

Vapour pressure ca. 23 hPa 20 ℃

Relative density ca. 1,08 g/cm3

Vapour density not available

Solubility in water miscible



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	Value	Temperature	at	Method	Remark
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	ca2				Value of tetrapotassiun pyrophosphat
Decomposition temperature	>= 100 °C				
Viscosity dynamic	6,5 mPa*s	20 °C			
Solvent content	0 %				
Vapourisation rate Water: 0.36 (ASTM D3539).					
Oxidising properties no					
Explosive properties no					
9.2. Other information					

SECTION 10: Stability and reactivity

10.1. Reactivity

Evolution of heat under influence of acids.

No further relevant informations available.

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

Substances to avoid

Reactions with strong acids.

Reactions with strong oxidising agents.

Corrodes aluminium.

10.6. Hazardous decomposition products

No decomposition if used as directed.



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! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	3787 mg/kg		ATE (acute toxicity estimate)	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	
LC50 acute inhalation	5,3 mg/l ()		ATE (acute toxicity estimate)	dust/mist
Skin irritation	irritant			
Eye irritation	irritant - risk of strong eye injuries			
Skin sensitization	non-sensitizing			

Specific target organ toxicity (single exposure)

The mixture is not classified as specific target organ toxicant (single exposure). Inhalation of spray may cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

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

Aspiration hazard

The mixture is not classified as aspiration hazardous.

Toxicity test (Additional information)

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant. potassium hydroxide: LD50(oral, rat): 273 mg/kg.

Experiences made from practice

Has a degreasing effect on the skin.

! SECTION 12: Ecological information

12.1. Toxicity

_	_		
Foot	aviaa	loaical	effects

ECOLOXICOIO	Value	Species	Method	Validation
Fish	LC50 11,1 mg/l		calculated	
Daphnia	EC50 9,2 mg/l		calculated	
Algae	EC50 6,7 mg/l		calculated	
12.2. Persist Physico-che degradabilit			Neutralization, pH- measurement	Alkaline properties can be eliminated up to 100% by neutralization.



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	Elimination rate	Method of analysis	Method	Validation
Biological degradability	>= 65 %	DOC decrease	calculated	Moderately/partially biodegradable

12.3. Bioaccumulative potential

isotridecanol, ethoxylated: Bioaccumulation is improbable. tetrapotassium pyrophosphate: Bioaccumulation is improbable. potassium hydroxide: Accumulation in organisms is not expected.

C10- fatty alcohol, alkoxylated: Accumulation in organisms is not expected.

isotridecanol: Has the potential to bioaccumulate (log Pow: 5.57).

12.4. Mobility in soil

isotridecanol, ethoxylated: Koc: >5000, strong adsorption on soil, immobile.

potassium hydroxide: Dissolves in water. Highly mobile in soil.

tetrapotassium pyrophosphate: moderately mobile in soil (Koc: ~150).

C10- fatty alcohol, alkoxylated: Adsorption on soil is possible.

isotridecanol: not available.

12.5. Results of PBT and vPvB assessment

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

12.6. Other adverse effects

No further relevant informations available.

Additional ecological information

	J	Value	Method	Remark
COD		ca. 368 mgO2/g	calculated	
AOX		The product does not	t contain any organically bou	und halogens according to the recipe.

General regulation

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.

The mixture is not classified as chronic hazardous to the aquatic environment.

Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No. Name of waste

20 01 29* detergents containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

Recommendations for the 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.

Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken fot reuse.

Recommended cleansing agent

Water



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SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN 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

nο

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

Land and inland navigation transport ADR/RID

Hazard label(s) 8

Tunnel restriction code E

! SECTION 15: Regulatory information

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

not relevant

Application restrictions

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 - not relevant if used as directed.

Other regulations (EU)

Regulation (EC) No 648/2004 (Detergents regulation).

Directive 2012/18/EU, Annex I: not mentioned.

VOC standard

VOC content 0 %

15.2. Chemical Safety Assessment

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

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

Further information

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.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 1.3

Sources of key data used

Own measurements.

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

Informations from our suppliers.



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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.