



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

### 1.1. Product identifier

Name of product elma lab clean S10 (ELC S10)  
UFI: 5V30-X0TX-R00P-K1DS

### 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

#### Recommended intended purpose(s)

Aqueous acid 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 categories	Hazard Statements	Classification procedure
Skin Irrit. 2	H315	Expert judgement and weight of evidence determination.
Eye Dam. 1	H318	Calculation method.
STOT SE 3	H335	Calculation method.
Aquatic Chronic 3	H412	Calculation method.

#### Hazard Statements

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

### 2.2. Label elements



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

Printed 14.04.2021

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**elma lab clean S10 (ELC S10)**

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



GHS05



GHS07

**Signal word**

Danger

**Hazard Statements**

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H335 May cause respiratory irritation.  
H412 Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P102 Keep out of reach of children.  
P261 Avoid breathing mist/vapours/spray.  
P280 Wear protective gloves/eye protection.  
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.  
P302 + P352 IF ON SKIN: Wash with plenty of water.  
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.  
P312 Call a POISON CENTER/doctor if you feel unwell.

**! Hazardous ingredients for labelling**

C10- fatty alcohol, alkoxyated, glycollic acid, isotridecanol, ethoxylated, isotridecanol, ethoxylated

**2.3. Other hazards**

Acute Tox. 5 (oral) H303: May be harmful if swallowed.

Aquatic Acute 2 H401: Toxic to aquatic life.

**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 acid foam-inhibited mixture of non-ionic surfactants, complexing agents, solvents and organic acids.

**! Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
69011-36-5	931-138-8	isotridecanol, ethoxylated	< 5	Acute Tox. 4, H302 / Eye Dam. 1, H318
166736-08-9		C10- fatty alcohol, alkoxyated	5 - 15	Acute Tox. 4, H302 / Eye Dam. 1, H318
69011-36-5	931-138-8	isotridecanol, ethoxylated	5 - 15	Acute Tox. 4, H302 / Eye Dam. 1, H318



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**Hazardous ingredients (continued)**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
79-14-1	201-180-5	glycollic acid	5 - 15	Met. Corr. 1, H290 / Acute Tox. 4, H332 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / STOT SE 3, H335
34590-94-8 27458-92-0	252-104-2 248-469-2	(2-methoxymethylethoxy)-propanol isotridecanol	5 - 15 < 0,5	Skin Irrit. 2, H315 / Aquatic Acute 1, H400 M=1 / Aquatic Chronic 1, H410 M=1
64-18-6	200-579-1	formic acid ... %	< 0,2	Flam. Liq. 3, H226 / Acute Tox. 4, H302 / Acute Tox. 3, H331 / Skin Corr. 1A, H314 / Eye Dam. 1, H318 / , EUH071 / STOT SE 1, H370

**REACH**

CAS No	Name	REACH registration number
69011-36-5	isotridecanol, ethoxylated	Not relevant (polymer).
166736-08-9	C10- fatty alcohol, alkoxyated	Not relevant (polymer).
69011-36-5	isotridecanol, ethoxylated	Not relevant (polymer).
79-14-1	glycollic acid	01-2119485579-17
34590-94-8	(2-methoxymethylethoxy)-propanol	01-2119450011-60
27458-92-0	isotridecanol	Not relevant (impurity).
64-18-6	formic acid ... %	Not relevant (impurity).

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**General information**

Remove contaminated soaked clothing immediately and dispose it safely.

**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 immediately with plenty of 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.



## SECTION 5: Firefighting measures

### 5.1. Extinguishing media

#### Suitable extinguishing media

water  
Alcohol-resistant 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:  
Corrosive gases/vapours  
Carbon monoxide (CO)  
Phosphorus oxides (e.g. phosphoruspentoxide)  
Under certain fire conditions traces of other toxic substances cannot be excluded.

### 5.3. Advice for firefighters

#### Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.

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## 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, kieselguhr, acid binder, general-purpose binder, sawdust).  
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.

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## 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 vapours/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 hardly combustible.  
Pay attention to general rules of internal fire prevention.

#### 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

Do not store with alkalis.  
Do not store together with oxidizing agents.

##### 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 °C.  
Do not keep at temperatures above 30 °C.

##### 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

##### Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
34590-94-8	(2-methoxymethylethoxy)-propanol	8 hours	308	50	skin

##### DNEL-/PNEC-values

###### DNEL worker

CAS No	Substance name	Value	Code	Remark
79-14-1	glycollic acid	1,53 mg/m3	DNEL long-term inhalative (local)	
		57,69 mg/ kg bw/day	DNEL long-term dermal (systemic)	
		10,56 mg/m3	DNEL long-term inhalative (systemic)	

###### PNEC

CAS No	Substance name	Value	Code	Remark
79-14-1	glycollic acid	7 mg/l	PNEC sewage treatment plant (STP)	
		0,031 mg/l	PNEC aquatic, freshwater	

#### Additional advice



## 8.2. Exposure controls

### Respiratory protection

Breathing apparatus in the event of aerosol or mist formation.

Short term: filter apparatus, Filter A/P2

### Hand protection

chemical-resistant gloves

Glove material specification [make/type, thickness]: FKM, 0.4mm.

Glove material specification [make/type, thickness]: Butyl, 0.5mm.

### 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

#### Appearance

liquid

#### Colour

yellowish

#### Odour

characteristic

#### Odour threshold

(2-methoxymethylethoxy)-propanol: 210 - 600mg/m<sup>3</sup> (34 - 97 ppm).

#### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	ca. 2,5				
<b>boiling range</b>	>= 100 °C				
<b>solidifying range</b>	not determined				
<b>Flash point</b>					No flash point below 100 °C.
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>					not spontaneously flammable
<b>Lower explosion limit</b>	1,1 Vol-%				Value of (2-methoxymethyl ethoxy)-propanol.



	Value	Temperature	at	Method	Remark
<b>Upper explosion limit</b>	14 Vol-%				Value of (2-methoxymethyl ethoxy)-propanol.
<b>Vapour pressure</b>	ca. 24 hPa	20 °C			
<b>Relative density</b>	ca. 1,05 g/cm <sup>3</sup>				
<b>Vapour density</b>	5,12				Value of (2-methoxymethyl ethoxy)-propanol.
<b>Solubility in water</b>					miscible
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	5,57				Value of isotridecanol.
<b>Decomposition temperature</b>	>= 100 °C				
<b>Viscosity dynamic</b>	26,4 mPa*s	20 °C			
<b>Solvent content</b>	5 - 15 %				
<b>Vapourisation rate</b>	Water: 0.36 (ASTM D3539). (2-methoxymethylethoxy)-propanol: ~0.02 (ASTM D3539).				

#### **Oxidising properties**

no

#### **Explosive properties**

no

#### **9.2. Other information**

The mixture is not classified as corrosive to metals.

No further relevant informations available.

## **SECTION 10: Stability and reactivity**

### **10.1. Reactivity**

No further hazardous reactions known if used as directed.

Exothermic reaction with alkalis.

### **10.2. Chemical stability**

Stable at ambient temperature.

### **10.3. Possibility of hazardous reactions**

Reactions with oxidising agents.

Reactions with strong alkalis.



#### 10.4. Conditions to avoid

Heat and direct solar radiation.

#### 10.5. Incompatible materials

##### Substances to avoid

Reactions with oxidising agents.

Reactions with strong alkalis.

#### 10.6. Hazardous decomposition products

No decomposition if used as directed.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

#### Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	2417 mg/kg		ATE (acute toxicity estimate)	
<b>LD50 acute dermal</b>	> 5000 mg/kg		ATE (acute toxicity estimate)	
<b>LC50 acute inhalation</b>	> 50 mg/l ()		ATE (acute toxicity estimate)	vapours
<b>Skin irritation</b>	strong irritant			
<b>Eye irritation</b>	risk of strong eye injuries			
<b>Skin sensitization</b>	The mixture is not classified as skin sensitiser.			

#### Specific target organ toxicity (single exposure)

Respiratory irritant effect: STOT SE 3 H335: 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.

Aerosols of product effect toxic in case of inhaling (Acute Tox. 4 H332: Harmful if inhaled.).

OECD 435: not corrosive to skin.

#### Experiences made from practice

Has a degreasing effect on the skin.





## ! SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	LC50 4,4 mg/l		calculated	
<b>Daphnia</b>	EC50 3,6 mg/l		calculated	
<b>Algae</b>	EC50 4,3 mg/l		calculated	

### 12.2. Persistence and degradability

<b>Physico-chemical degradability</b>	100 %		Neutralization, pH-measurement	Acid properties can be eliminated up to 100% by neutralization.
<b>Biological degradability</b>	> 80 %	DOC decrease	calculated	Biodegradable

### 12.3. Bioaccumulative potential

isotridecanol, ethoxylated: Bioaccumulation is improbable.  
isotridecanol, ethoxylated: Bioaccumulation is improbable.  
C10- fatty alcohol, alkoxyated: Accumulation in organisms is not expected.  
isotridecanol: Has the potential to bioaccumulate (log Pow: 5.57).  
(2-methoxymethylethoxy)-propanol: Accumulation in organisms is not expected (log Pow: 0.004).  
glycollic acid: Accumulation in organisms is not expected (log Pow: -1.11).  
formic acid: Accumulation in organisms is not expected (log Pow: -0.154).

### 12.4. Mobility in soil

isotridecanol, ethoxylated: Koc: >5000, immobile, strong adsorption on soil.  
isotridecanol, ethoxylated: Koc: >5000, strong adsorption on soil, immobile.  
C10- fatty alcohol, alkoxyated: Adsorption on soil is possible.  
isotridecanol: not available.  
(2-methoxymethylethoxy)-propanol: Dissolves in water. Highly mobile in soil.  
glycollic acid: Adsorption on soil is not expected.  
formic acid: 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

	Value	Method	Remark
<b>COD</b>	ca. 1,0 gO <sub>2</sub> /g	calculated	
<b>AOX</b>	The product does not contain any organically bound 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.  
Chronic aquatic environmental hazards: Aquatic Chronic 3 H412: Harmful to aquatic life with long lasting effects.  
Do not allow uncontrolled leakage of product into the environment.



## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

**Waste code No.**

20 01 29\*

**Name of waste**

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.

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

Neutralize with alkalies or lime.

### Recommendations for packaging

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

### Recommended cleansing agent

Water

## SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

### 14.6. Special precautions for user

no

### 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

No dangerous goods as defined by these transport regulations.

### Marine transport IMDG

No hazardous material as defined by the prescriptions.

### Air transport ICAO/IATA-DGR

No hazardous material as defined by the prescriptions.



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## ! 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 ca.14,5 %

### 15.2. Chemical Safety Assessment

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

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## 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: 1.2

### Sources of key data used

Own measurements.

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

Informations from our suppliers.

EUH071	Corrosive to the respiratory tract.
H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H331	Toxic if inhaled.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H370	Causes damage to organs (or state all organs affected, if known) (state route of exposure if it is conclusively proven that no other routes of exposure cause the hazard).
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.