

No. 1907/2006 (REACH) Printed 03.09.2015

revision 29.07.2015 (GB) Version 1.1

elma lab clean S10 (ELC S10)

! 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)

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 67/548/EEC or 1999/45/EC

Xi; R37/38 Xi; R41

R-phrases

37/38 Irritating to respiratory system and skin.
41 Risk of serious damage to eyes.

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

Hazard classes and Hazard Hazard Statements Classification procedure

categories

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.



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2.2. Label elements

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 + 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 present and easy to do. Continue rinsing. P338 Immediately call a POISON CENTER/doctor/... . P310 Call a POISON CENTER/doctor/.../if you feel unwell. P312

! Hazardous ingredients for labeling

C10- fatty alcohol, ethoxylated, 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 67/548/EEC
69011-36-5	931-138-8	isotridecanol, ethoxylated	< 5	Xn R22; Xi R41
166736-08-9		C10- fatty alcohol, ethoxylated	5 - 15	Xn R22; Xi R41
69011-36-5	931-138-8	isotridecanol, ethoxylated	5 - 15	Xi R41



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70.44.4			[% weight]	Classification according to 67/548/EEC
79-14-1	201-180-5	glycollic acid	5 - 15	Xn R20; C R34; Xi R37
34590-94-8	252-104-2	(2-methoxymethylethoxy)-propanol	5 - 15	
27458-92-0	248-469-2	isotridecanol	< 0,5	Xi R38; N R50
64-18-6	200-579-1	formic acid %	< 0,2	C R35
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, ethoxylated	5 - 15	Acute Tox. 4, H302 / Eye Dam. 1, H318
69011-36-5	931-138-8	isotridecanol, ethoxylated	5 - 15	Eye Dam. 1, H318 / Aquatic Chronic 3, H412
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	252-104-2	(2-methoxymethylethoxy)-propanol	5 - 15	,
27458-92-0	248-469-2	isotridecanol	< 0,5	Skin Irrit. 2, H315 / Aquatic Acute 1, H400 / Aquatic Chronic 1, H410
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

CAS No	Name	REACH registration number
69011-36-5	isotridecanol, ethoxylated	Not relevant (polymer).
166736-08-9	C10- fatty alcohol, ethoxylated	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.



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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.

! 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 gases/vapours/aerosols.

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 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

Do not store with alkalies.

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 ℃.

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

Indicative occupational exposure limit values (91/322/EEC, 2000/39/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
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.



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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

AppearanceColourOdourliquidyellowishcharacteristic

Odour threshold

(2-methoxymethylethoxy)-propanol: 210 - 600mg/m3 (34 - 97 ppm).

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 2,5				
boiling range	>= 100 °C				
solidifying range	not determined				
Flash point					No flash point below 100 ℃.
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature					not spontaneously flammable
Lower explosion limit	1,1 Vol-%				Value of (2- methoxymethyl ethoxy)- propanol.
Upper explosion limit	14 Vol-%				Value of (2- methoxymethyl ethoxy)- propanol.
Vapour pressure	ca. 24 hPa	20 ℃			
Relative density	ca. 1,05 g/cm3				



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	Value	Temperature	at	Method	Remark
Vapour density	5,12				Value of (2- methoxymethy ethoxy)- propanol.
Solubility in water					miscible
Solubility/other	not determine	ed			
Partition coefficient n- octanol/water (log P O/W)	5,57				Value of isotridecanol.
Decomposition temperature	>= 100 °C				
Viscosity	not determine	ed			
Solvent concentration	5 - 15 %				
Vapourisation rate Water: 0.36 (ASTM D3539). (2-methoxymethylethoxy)-propa	nol: ~0.02 (ASTM	I 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 alkalies.

10.2. Chemical stability

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

Reactions with oxidising agents. Reactions with strong alkalies.

10.4. Conditions to avoid

Heat and direct solar radiation.

10.5. Incompatible materials

! Materials to avoid

Reactions with oxidising agents.

Reactions with strong alkalies.



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10.6. Hazardous decomposition products

No decomposition if used as directed.

! SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	3241 mg/kg		ATE (acute toxicity estimate)	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	
LC50 acute inhalation	> 50 mg/l ()		ATE (acute toxicity estimate)	vapours
Irritability skin	strong irritant			
Irritability eye	risk of strong eye injuries			
Skin sensitization	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 effect	_

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



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12.2. Persistence and degradability

Physico-chemical degradability

100 %

Neutralization, pHmeasurement Acid properties can be eliminated up to 100% by

neutralization.

Biological degradability

> 80 %

DOC decrease

calculated

Biodegradable

12.3. Bioaccumulative potential

isotridecanol, ethoxylated: Bioaccumulation is improbable. isotridecanol, ethoxylated: Bioaccumulation is improbable.

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

isotridecanol: not available.

(2-methoxymethylethoxy)-propanol: Dissolves in water. Highly mobile in soil.

glycollic acid: not available. 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
COD	ca. 1,0 gO2/g	calculated	
AOX	The product does it	not contain any organicall	y 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 aguatic environmental hazards: Aguatic Chronic 3 H412: Harmful to aguatic 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.

Name of waste

20 01 29*

detergents containing dangerous 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.



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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

! 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 hazard	s -	-	-

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.

! 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.

Harmful to aquatic life with long lasting effects.

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: 1.0

Sources of key data used

Own measurements.

Wording of the R/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 20 Harmful by inhalation.

R 22 Harmful if swallowed.

R 34 Causes burns.

R 35 Causes severe burns.

R 37 Irritating to respiratory system.

R 38 Irritating to skin.

H412

R 41 Risk of serious damage to eyes.

R 50 Very toxic to aquatic organisms.

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.