



Ultrasonics.Steam.Ultraclean.

Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH)
Printed 29.08.2018
Revision 29.08.2018 (GB) Version 1.4
elma lab clean N10 (ELC N10)

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

1.1. Product identifier

Name of product elma lab clean N10 (ELC N10)

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

Identified uses

Sector of uses [SU]

SU20 - Health services
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 (including solvent based products)

Process categories [PROC]

PROC7 - Industrial spraying
PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities
PROC9 - Transfer of substance or preparation 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 - Wide dispersive indoor use of processing aids in open systems

Recommended intended purpose(s)

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

1.3. Details of the supplier of the safety data sheet

Manufacturer Address

Elma Schmidbauer GmbH
Gottlieb-Daimler-Str. 17
78224 Singen (Germany)

Supplier Address

Tovatech LLC
205 Rutgers Street
Maplewood, NJ 07040

Emergency telephone number

Company Phone Number 973-913-9734

Emergency Telephone

INFOTRAC 1-352-323-3500 (International)
1-800-535-5053 (North America)

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

Eye Irrit. 2 H319 Expert judgement and weight of evidence determination.

Hazard Statements

H319 Causes serious eye irritation.

2.2. Label elements



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



GHS07

Signal word
Warning

Hazard Statements
H319 Causes serious eye irritation.

Precautionary Statements

P261 Avoid breathing mist/spray.
P280 Wear eye protection.
P301 + P312 IF SWALLOWED: 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.
P337 + P313 If eye irritation persists: Get medical advice/attention.

2.3. Other hazards

Acute Tox. 5 (inhalation) H333: May be harmful 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.

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 neutral foam-inhibited mixture of anionic and non-ionic surfactants, complexing agents and phosphates.

! 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, ethoxylated	< 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 / Aquatic Chronic 3, H412
15763-76-5	239-854-6	sodium cumenesulphonate	< 5	Eye Irrit. 2, H319
164524-02-1	629-764-9	potassium cumenesulphonate	< 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



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REACH

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).
15763-76-5	sodium cumenesulphonate	01-2119489411-37
164524-02-1	potassium cumenesulphonate	01-2119489427-24
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 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

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

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:

Carbon monoxide (CO)

Phosphorus oxides (e.g. phosphoruspentoxide)

Sulfur oxide

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.

Forms slippery surfaces with water.

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

6.2. Environmental precautions

Do not discharge into 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

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.

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.



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! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

! Additional advice

Occupational exposure limits: No relevant informations available.

8.2. Exposure controls

Eye protection

tightly fitting goggles

Limitation and surveillance of the environment

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

not determined

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 7,1				
boiling range	>= 100 °C				
Melting point / Freezing point	not determined				
Flash point					No flash point below 100 °C.
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
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 °C			
Relative density	1,059 g/cm3				
Vapour density	not available				



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	Value	Temperature	at	Method	Remark
Solubility in water					miscible
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	-1,1				Value of sodium cumenesulphonate.
Decomposition temperature	>= 100 °C				
Viscosity dynamic	5,4 mPa*s	20 °C			
Solvent content	0 %				
Vapourisation rate Water: 0.36 (ASTM D3539).					
Oxidising properties no					
Explosive properties no					
9.2. Other information No further relevant informations available.					

! SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used as directed.

10.2. Chemical stability

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

No hazardous reactions known.

10.4. Conditions to avoid

Heat and direct solar radiation.

10.5. Incompatible materials

! Substances to avoid

No hazardous reactions known.

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	> 5000 mg/kg		ATE (acute toxicity estimate)	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	
LC50 acute inhalation	7,2 mg/l ()		ATE (acute toxicity estimate)	dust/mist
Skin irritation	non-irritant			
Eye irritation	irritant			
Skin sensitization	The mixture is not classified as skin sensitiser.			

Specific target organ toxicity (single exposure)

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

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.

Experiences made from practice

Has a degreasing effect on the skin.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 8,8 mg/l		calculated	
Daphnia	EC50 7,3 mg/l		calculated	
Algae	EC50 8,6 mg/l		calculated	

12.2. Persistence and degradability

Biological degradability	> 80 %	DOC decrease	calculated	readily degradable
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12.3. Bioaccumulative potential

sodium cumenesulphonate: Bioaccumulation is improbable.

potassium cumenesulphonate: Bioaccumulation is improbable.



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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).

12.4. Mobility in soil

sodium cumenesulphonate: Adsorption on soil is not expected.
 potassium cumenesulphonate: Adsorption on soil is not expected.
 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.

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. 450 mgO2/g	calculated	
AOX	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.
 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 30	detergents other than those mentioned in 20 01 29

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.

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	-	-	-



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	ADR/RID	IMDG	IATA-DGR
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.			

! 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.

H302 Harmful if swallowed.
H315 Causes skin irritation.
H318 Causes serious eye damage.



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- H319 Causes serious eye irritation.
- H400 Very toxic to aquatic life.
- H410 Very toxic to aquatic life with long lasting effects.
- H412 Harmful to aquatic life with long lasting effects.