



**elma lab clean N10 (ELC N10)**

Print date 18.11.2022  
Revision date 15.09.2022  
Version 1.7 (en)  
replaces version of 30.03.2021 (1.6)

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

**\* 1.1 Product identifier**

**Trade name/designation** elma lab clean N10 (ELC N10)  
**Unique Formula Identifier** UFI: HS30-F04J-F005-XPTQ  
**Product category** PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

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

**Sector of uses [SU]**

SU20 Health services  
SU22 Professional uses: Public domain (administration, education, entertainment, services, craftsmen)  
SU3 Industrial uses

**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)

**Product Categories [PC]**

PC35 Washing and cleaning products

**Use of the substance/mixture**

Aqueous, neutral, foam-inhibited cleaning concentrate for ultrasonic, immersion & splash cleaning of sensitive parts and medical devices.

**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  
Website www.elma-ultrasonic.com

Department responsible for information:  
Chemie/Labor: Email: chemlab@elma-ultrasonic.com

**\* 1.4 Emergency telephone number**

Vergiftungs-Informationen-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

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

**Hazard statements for health hazards**

H319 Causes serious eye irritation.

**\* 2.2 Label elements**

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



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**Hazard pictograms**



GHS07

**Signal word**

Warning

**Hazard statements**

H319 Causes serious eye irritation.

**Precautionary statements**

P261 Avoid breathing mist/spray.

P280 Wear eye protection.

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.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

\* **Other labelling**

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

5 - 15% anionic surfactants

5 - 15% non-ionic surfactants

< 5% phosphates

< 5% polycarboxylates

\* **2.3 Other hazards**

\* **Adverse human health effects and symptoms**

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

Inhalation of spray may be harmful.

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

**3.2 Mixtures**

**Hazardous ingredients**

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
69011-36-5	931-138-8	isotridecanol, ethoxylated	5 - 15 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	Eye Dam. 1; H318: C>10% Eye Irrit. 2; H319: 1%<C=10%
166736-08-9		C10- fatty alcohol, alkoxyated	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	ATE(oral): 500 mg/kg  ATE(oral): 500 mg/kg



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

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Version 1.7 (en)  
replaces version of 30.03.2021 (1.6)

CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
15763-76-5	239-854-6	sodium cumenesulphonate	< 5 weight-%	Eye Irrit. 2; H319	
164524-02-1	629-764-9	potassium cumenesulphonate	< 5 weight-%	Eye Irrit. 2; H319	
27458-92-0	248-469-2	isotridecanol	< 0.2 weight-%	Skin Irrit. 2; H315 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	M=1 (Aquatic Acute 1) M=1 (Aquatic Chronic 1)

REACH No.	Substance name
Not relevant (polymer).	isotridecanol, ethoxylated
01-2119489411-37	sodium cumenesulphonate
01-2119489427-24	potassium cumenesulphonate
Not relevant (polymer).	C10- fatty alcohol, alkoxyated
Not relevant (impurity).	isotridecanol

**Additional information**

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

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

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

**Following inhalation**

Provide fresh air.  
In the event of symptoms refer for medical treatment.

**\* Following skin contact**

In case of contact with skin wash off with 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.

**Following ingestion**

If swallowed seek medical advice immediately and show the doctor packing or label.  
Rinse mouth immediately and drink plenty of water.  
Medical treatment necessary.

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

**Symptoms**

No further informations available.

**4.3 Indication of any immediate medical attention and special treatment needed**

**Notes for the doctor**

No further informations available.



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**\* SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

**Suitable extinguishing media**

Water  
Foam  
Extinguishing powder  
Carbon dioxide (CO<sub>2</sub>)

**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:  
Carbon monoxide  
Phosphorus oxides  
Sulphur oxides

**\* 5.3 Advice for firefighters**

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

**\* Additional information**

Co-ordinate fire-fighting measures to the fire surroundings.  
The product itself does not burn.

**\* 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**

Personal protection equipment  
Use personal protection.  
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.

**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.  
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



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**\* SECTION 7: Handling and storage**

**\* 7.1 Precautions for safe handling**

**\* Protective measures**  
Handle and open container with care.  
Take the usual precautions when handling with chemicals.  
Do not inhale aerosols  
Avoid contact with eyes and skin.  
The product is not combustible.

**Advices on general occupational hygiene**

Make available sufficient washing facilities  
Keep away from food and drink.

**7.2 Conditions for safe storage, including any incompatibilities**

**Requirements for storage rooms and vessels**

Keep only in unopened original container.

**Storage class**

12 non-combustible liquids that cannot be assigned to any of the above storage classes

**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**

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**

**\* DNEL worker**

CAS No.	Substance name	DNEL value	DNEL type	Remark
15763-76-5	sodium cumenesulphonate	37.4 mg/m <sup>3</sup>	long-term inhalative (systemic)	Assessment factor 25
15763-76-5	sodium cumenesulphonate	191 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 100
164524-02-1	potassium cumenesulphonate	37.4 mg/m <sup>3</sup>	long-term inhalative (systemic)	Assessment factor 25
164524-02-1	potassium cumenesulphonate	191 mg/kg bw/day	long-term dermal (systemic)	Assessment factor 100

**\* PNEC**

CAS No.	Substance name	PNEC Value	PNEC type	Remark
15763-76-5	sodium cumenesulphonate	0.1 mg/L	aquatic, freshwater	Assessment factor 1000
15763-76-5	sodium cumenesulphonate	100 mg/L	sewage treatment plant (STP)	Assessment factor 10
164524-02-1	potassium cumenesulphonate	0.1 mg/L	sediment, freshwater	Assessment factor 1000
164524-02-1	potassium cumenesulphonate	100 µg/kg	sewage treatment plant (STP)	Assessment factor 10

**8.2 Exposure controls**

**Appropriate engineering controls**

**Technical measures to prevent exposure**

Technical exhaustion in case of longtermed exposition in sprayed aerosols.



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**Personal protection equipment**

**Eye/face protection**  
tightly fitting goggles

**Environmental exposure controls**

**Technical measures to prevent exposure**  
Avoid penetration into the subsoil/soil.  
Do not discharge into surface waters.

**Additional information**

Occupational exposure limits: No relevant informations available.

**\* SECTION 9: Physical and chemical properties**

**\* 9.1 Information on basic physical and chemical properties**

**Physical state**  
liquid

**Colour**  
yellowish

**Odour**  
characteristic

**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:			not determined
Melting point/freezing point			not determined
Boiling point or initial boiling point and boiling range	≥ 100 °C		
flammability	solid		not applicable
flammability	gaseous		not applicable
Lower and upper explosion limit	Upper explosion limit		not relevant
Lower and upper explosion limit	Lower explosion limit		not relevant
Flash point			No flash point up to 100 °C.
Auto-ignition temperature	230 °C		Value of isotridecanol.
Decomposition temperature	≥ 100 °C		
pH	in delivery state approx. 7.1		
Viscosity	dynamic 6.4 mPa*s (20°C)		
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	-1.1		Value of sodium cumenesulphonate.
Vapour pressure	approx. 23 hPa (20°C)		
Density and/or relative density	1.059 g/cm <sup>3</sup>		
Relative vapour density	0.62		Value of Water.
particle characteristics			not applicable (liquid).



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\* **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.

\* **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.



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\* **Oxidising liquids**

\* **Assessment/classification**

The mixture does not contain any oxidising substances.

\* **Oxidising solids**

\* **Assessment/classification**

not applicable (liquid).

\* **Organic peroxides**

\* **Assessment/classification**

The mixture does not contain any organic peroxides.

\* **Corrosive to metals**

**Safety characteristics**

Value	Method, Result	Source, Remark
		The mixture does not contain any substances corrosive to metals.

\* **Assessment/classification**

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

\* **Desensitised explosives**

\* **Assessment/classification**

The mixture does not contain any desensitised explosive substances.

**Other safety characteristics**

Value	Method	Source, Remark
Evaporation rate		Water: 0.36 (ASTM D3539).
Solvent content	0 %	
Explosive properties		none
Oxidising properties		none

\* **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.





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**10.5 Incompatible materials**

No hazardous reactions known.

**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	5092 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No.69011-36-5 isotridecanol, ethoxylated 500 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No.166736-08-9 C10- fatty alcohol, alkoxyated 500 mg/kg	ATE: Acute Toxicity Estimate	
Acute dermal toxicity	> 5000 mg/kg	ATE: Acute Toxicity Estimate	
Acute inhalation toxicity	Acute inhalation toxicity (dust/mist) 7.3 mg/L	ATE: Acute Toxicity Estimate	
	Acute inhalation toxicity (vapour)		not relevant

**\* Assessment/classification**  
May be harmful if inhaled.

**Skin corrosion/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
non-irritant.	Calculation method.	

**Serious eye damage/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Irritant.	Expert judgement and weight of evidence determination.	

**\* Sensitisation to the respiratory tract**

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

**Skin sensitisation**

**Animal data**

Result / Evaluation	Dose / Concentration	Method	Source, Remark
The mixture is not classified as skin sensitiser.		Calculation method.	



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Revision date 15.09.2022  
Version 1.7 (en)  
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\* **Germ cell mutagenicity**

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

\* **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**

\* **Assessment/classification**  
The mixture is not classified as specific target organ toxicant (single exposure).  
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**

\* **Assessment/classification**  
The mixture is not classified as specific target organ toxicant (repeated exposure).  
Based on available data, the classification criteria are not met.

\* **Aspiration hazard**

\* **Assessment/classification**  
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**

OECD 437: nicht schwer augenschädigend (not serious eye damaging).  
Has degreasing effect on the skin.

**elma lab clean N10 (ELC N10)**

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Revision date 15.09.2022  
Version 1.7 (en)  
replaces version of 30.03.2021 (1.6)

**\* SECTION 12: Ecological information****\* 12.1 Toxicity****Aquatic toxicity**

	Effective dose	Method, Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 8.9 mg/L CAS No.27458-92-0 isotridecanol LC50: 0.55 mg/L Species Danio rerio (zebrafish) Test duration 96 h	calculated. OECD 203	
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 7.4 mg/L CAS No.27458-92-0 isotridecanol EC50 0.391 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	calculated. OECD 202	
Chronic (long-term) toxicity to aquatic invertebrate	CAS No.27458-92-0 isotridecanol NOEC 0.0036 mg/L Species Daphnia magna (Big water flea) Test duration 21 d		
Acute (short-term) toxicity to algae and cyanobacteria	EC50 8.7 mg/L CAS No.27458-92-0 isotridecanol EC50 0.297 mg/L Species Desmodesmus subspicatus Test duration 72 h	calculated. OECD 201	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

**\* Assessment/classification**

Toxic to aquatic life.

**12.2 Persistence and degradability**

	Value	Method	Source, Remark
Biodegradation	Degradation rate > 80 %	calculated.	DOC reduction Readily biodegradable (according to OECD criteria).
Biodegradation	Degradation rate > 60 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No.69011-36-5 isotridecanol, ethoxylated
Biodegradation	Degradation rate > 60 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No.166736-08-9 C10- fatty alcohol, alkoxyated
Biodegradation	Degradation rate 90- 100 % Test duration 28 d	OECD 301F/ ISO 9408/ EEC 92/69/V, C.4-D	CAS No.27458-92-0 isotridecanol
Biodegradation	Degradation rate 99 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No.15763-76-5 sodium cumenesulphonate



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

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Revision date 15.09.2022  
Version 1.7 (en)  
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	Value	Method	Source, Remark
Biodegradation	Degradation rate > 60 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No.164524-02-1 potassium cumenesulphonate

### 12.3 Bioaccumulative potential

**Assessment/classification**

isotridecanol, ethoxylated: Bioaccumulation is improbable.  
C10- fatty alcohol, alkoxyated: Accumulation in organisms is not expected.  
sodium cumenesulphonate: Bioaccumulation is improbable.  
potassium cumenesulphonate: Bioaccumulation is improbable.  
isotridecanol: Has the potential to bioaccumulate (log Pow: 5.57).

### 12.4 Mobility in soil

**Assessment/classification**

isotridecanol, ethoxylated: Koc: >5000, strong adsorption on soil, immobile.  
C10- fatty alcohol, alkoxyated: Adsorption on soil is possible.  
sodium cumenesulphonate: Adsorption on soil is not expected.  
potassium cumenesulphonate: Adsorption on soil is not expected.  
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 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

	Value	Method	Source, Remark
Chemical oxygen demand (COD) AOX	approx. 448 mgO2/g	calculated.	The product does not contain any organically bound halogens according to the recipe.

**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.  
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.



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**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

**Waste codes/waste designations according to EWC/AVV**

Waste code product	Waste name
200130	detergents other than those mentioned in 20 01 29

**Appropriate disposal / Product**

Do not dispose with household waste.  
Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations.

**Appropriate disposal / Package**

Non-contaminated packages may be recycled.

**SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA-DGR)
<b>14.1 UN number or ID number</b>	-	-	-
<b>14.2 UN proper shipping name</b>	-	-	-
<b>14.3 Transport hazard class(es)</b>	-	-	-
<b>14.4 Packing group</b>	-	-	-
<b>14.5 Environmental hazards</b>	No	No	No
<b>14.6 Special precautions for user</b>	none		

**14.7 Maritime transport in bulk according to IMO instruments**

not relevant

**Land transport (ADR/RID)**

**Remark**

Not classified for this transport carrier.

**Sea transport (IMDG)**

**Remark**

No hazardous material as defined by the prescriptions.

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

**Remark**

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**

**\* EU legislation**

**Authorisations**

not relevant

**Restrictions on use**

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 - not relevant if used as directed.  
Regulation (EC) No 1907/2006 (REACH), Annex XVII No 75 - not relevant if used as directed.

**\* Restrictions of occupation**

Observe restrictions to employment for juvenils according to the 'juvenile work protection guideline' (94/33/EC).



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Version 1.7 (en)  
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**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**

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

**\* 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

SCL: Specific concentration limit

TI: Technical Instruction

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)**

H302	Harmful if swallowed.
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.

**Indication of changes**

\* Data changed compared with the previous version