



**elma clean 270 dip&splash (EC 270 d&s)**

Print date 15.05.2025  
Revision date 15.05.2025  
Version 1.8 (en)  
replaces version of 15.09.2022 (1.7)

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

### 1.1 Product identifier

**Trade name/designation** elma clean 270 dip&splash (EC 270 d&s)  
**Unique Formula Identifier** UFI: 4J60-N078-8000-3MFS  
**Product category** PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)

#### Hazard components

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

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

#### Sector of uses [SU]

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)  
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)

#### Product Categories [PC]

PC35 Washing and cleaning products

#### Use of the substance/mixture

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

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



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**Hazard statements for physical hazards**

H290 May be corrosive to metals.

**Hazard statements for health hazards**

H315 Causes skin irritation.

H318 Causes serious eye damage.

**2.2 Label elements**

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

**Hazard components**

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

**Hazard pictograms**



GHS05

**Signal word**

Danger

**Hazard statements**

H290 May be corrosive to metals.

H315 Causes skin irritation.

H318 Causes serious eye damage.

**Precautionary statements**

P102 Keep out of reach of children.

P234 Keep only in original packaging.

P261 Avoid breathing mist/spray.

P280 Wear protective gloves/eye protection.

P312 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.

P310 Immediately call a doctor.

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

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

**Other labelling**

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

5 - 15% amphoteric surfactants

5 - 15% non-ionic surfactants

< 5% phosphates

< 5% polycarboxylates

**\* 2.3 Other hazards**

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

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

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

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.



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### SECTION 3: Composition / information on ingredients

#### 3.1 Substances

not applicable

#### 3.2 Mixtures

##### Hazardous ingredients

CAS No	EC No	Index No	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
7320-34-5	230-785-7		tetrapotassium pyrophosphate	< 5 weight-%	Eye Irrit. 2; H319	
166736-08-9			C10- fatty alcohol, alkoxylated	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	ATE(oral): 500 mg/kg
69011-36-5	931-138-8		isotridecanol, ethoxylated	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	Eye Dam. 1;H318: C>10% Eye Irrit. 2;H319: 1%<C<=10%  ATE(oral): 500 mg/kg
1310-58-3	215-181-3	019-002-00-8	potassium hydroxide	< 2 weight-%	Met. Corr. 1 ; H290 Acute Tox. 3; H301 Skin Corr. 1A; H314 Eye Dam. 1; H318	Skin Corr. 1A;H314: C>=5% Skin Corr. 1B;H314: 2%<=C<5% Skin Irrit. 2;H315: 0.5%<=C<2% Eye Dam. 1;H318: C>=2% Eye Irrit. 2;H319: 0.5%<=C<2%
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).	C10- fatty alcohol, alkoxylated
Not relevant (polymer).	isotridecanol, ethoxylated
01-2119489369-18	tetrapotassium pyrophosphate
01-2119487136-33	potassium hydroxide
Not relevant (impurity).	isotridecanol

##### Additional information

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

### SECTION 4: First aid measures

#### 4.1 Description of first aid measures

##### Following inhalation

Provide fresh air.  
In case of inhaling spray mist, consult a physician.  
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.



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**Following ingestion**

Do NOT induce vomiting.  
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.

**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:  
Nitrogen oxides (NO<sub>x</sub>)  
Carbon monoxide  
Phosphorus 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.  
Use breathing apparatus if exposed to vapours/dust/aerosol.  
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.



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**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

**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.

**Materials to avoid**

Keep away from:  
Strong acid

**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**

**\* Occupational exposure limit values**

CAS No	EC No	Substance name	occupational exposure limit value
1310-58-3	215-181-3	Potassium hydroxide	Short-term(mg/m <sup>3</sup> ) 2 (1) 15 minutes reference period (IE)
1310-58-3	215-181-3	Potassium hydroxide	Short-term(mg/m <sup>3</sup> ) 2 (UK)



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**DNEL worker**

CAS No	Substance name	DNEL value	DNEL type	Remark
1310-58-3	potassium hydroxide	1 mg/m <sup>3</sup>	long-term inhalative (local)	Assessment factor 1

**8.2 Exposure controls**

**Appropriate engineering controls**

**Technical measures to prevent exposure**

Technical exhaustion in case of longtermed exposition in sprayed aerosols.

**Personal protection equipment**

**Eye/face protection**

tightly fitting goggles

**Hand protection**

chemical-resistant gloves

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

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.

**Respiratory protection**

Respiratory protection necessary at:  
aerosol or mist formation

Suitable respiratory protection apparatus:

Short term: filter apparatus, Filter P2

**Environmental exposure controls**

**Technical measures to prevent exposure**

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.

**Additional information**

Occupational exposure limits for potassium hydroxide.

**SECTION 9: Physical and chemical properties**

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

**Physical state**

liquid

**Colour**

dark green

**Odour**

mild

**Safety relevant basis data**

	Value	Method	Source, Remark
Odour threshold:			not determined
Melting point/freezing point	solidifying range		not determined
Boiling point or initial boiling point and boiling range	≥ 100 °C		
flammability	solid		not relevant
flammability	gaseous		not relevant



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	Value	Method	Source, Remark
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 11.4		
Viscosity	dynamic 7.8 mPa*s (20°C)		
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	approx. -2		Value of tetrapotassium pyrophosphate.
Vapour pressure	approx. 23 hPa (20°C)		
Density and/or relative density	approx. 1.08 g/cm <sup>3</sup>		
Relative vapour density	0.62		Value of Water.
particle characteristics			not applicable (liquid).

## 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).



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**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.

**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
Corrosion rate (mm aluminium/year)	> 6.25 mm/a	Expert judgement and weight of evidence determination.	
Corrosion rate (mm steel/year)			not available

**Assessment/classification**

The mixture is classified as corrosive to metals (Met. Corr. 1 H290).

**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).



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	Value	Method	Source, Remark
Solvent content	0 %		
Explosive properties			none
Oxidising properties			none

**Other information**

No further relevant informations available.

**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

Exothermic reaction with:

Acid

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**

Reactions with strong acids.

Oxidising agent, strong

Corrodes aluminium.

**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	3937 mg/kg CAS No1310-58-3 potassium hydroxide LD50: 273 mg/kg Species Rat	ATE: Acute Toxicity Estimate	
	CAS No69011-36-5 isotridecanol, ethoxylated 500 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No166736-08-9 C10- fatty alcohol, alkoxyated LD50: 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) 5.6 mg/L	ATE: Acute Toxicity Estimate	
	Acute inhalation toxicity (vapour)		not relevant



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**Assessment/classification**

May be harmful if swallowed or if inhaled.

**Skin corrosion/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Irritant.	Calculation method.	

\* **Serious eye damage/irritation**

**Animal data**

Result / Evaluation	Method	Source, Remark
Causes serious eye damage.	Calculation method.	

**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
not sensitising.		Calculation method.	

**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**

**Other information**

Inhalation of spray may cause respiratory irritation.

**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.



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**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**

**Information on other hazards**

	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**

Has degreasing effect on the skin.

**SECTION 12: Ecological information**

**12.1 Toxicity**

**Aquatic toxicity**

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 11.6 mg/L	calculated.	
	CAS No27458-92-0 isotridecanol LC50: 0.55 mg/L Species Danio rerio (zebrafish) Test duration 96 h	OECD 203	
	CAS No166736-08-9 C10- fatty alcohol, alkoxyated LC50: >10- 100 mg/L Species Danio rerio (zebrafish) Test duration 96 h	OECD 203	
Chronic (long-term) fish toxicity	CAS No69011-36-5 isotridecanol, ethoxylated LC50: >1- 10 mg/L Species Cyprinus carpio (Common Carp) Test duration 96 h	OECD 203	
	CAS No69011-36-5 isotridecanol, ethoxylated NOEC 1.73 mg/L	QSAR	
Acute (short-term) toxicity to crustacea	EC50 9.7 mg/L	calculated.	
	CAS No27458-92-0 isotridecanol EC50 0.391 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	



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	Effective dose	Method, Evaluation	Source, Remark
Chronic (long-term) toxicity to aquatic invertebrate	CAS No166736-08-9 C10-fatty alcohol, alkoxyated EC50 >1- 10 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	
	CAS No69011-36-5 isotridecanol, ethoxylated EC50 >1- 10 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	OECD 202	
	CAS No27458-92-0 isotridecanol NOEC 0.0036 mg/L Species Daphnia magna (Big water flea) Test duration 21 d	OECD 211	
	CAS No69011-36-5 isotridecanol, ethoxylated EC10 2.6 mg/L Species Daphnia magna (Big water flea) Test duration 21 d	OECD 211	
Acute (short-term) toxicity to algae and cyanobacteria	EC50 7 mg/L	calculated.	
	CAS No27458-92-0 isotridecanol EC50 0.297 mg/L Species Desmodesmus subspicatus Test duration 72 h	OECD 201	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	CAS No166736-08-9 C10-fatty alcohol, alkoxyated EC50 >10- 100 mg/L Species Scenedesmus subspicatus Test duration 72 h		
	CAS No69011-36-5 isotridecanol, ethoxylated EC50 >1- 10 mg/L Species Scenedesmus subspicatus Test duration 72 h	OECD 201	
	CAS No69011-36-5 isotridecanol, ethoxylated EC10: >1- 10 mg/L Species Desmodesmus subspicatus Test duration 72 h	OECD 201	
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 ≥ 65 %	calculated	DOC reduction Moderately/partially biodegradable.



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	Value	Method	Source, Remark
Biodegradation	Degradation rate 100 %	Neutralization, pH-measurement	Alkaline properties can be eliminated up to 100% by neutralization.
Biodegradation			CAS No1310-58-3 potassium hydroxide
Biodegradation			Inorganic product which is not eliminable from water through biological cleaning processes.
Biodegradation			CAS No7320-34-5 tetrapotassium pyrophosphate
Biodegradation			Inorganic product which is not eliminable from water through biological cleaning processes.
Biodegradation	Degradation rate > 60 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No69011-36-5 isotridecanol, ethoxylated
Biodegradation	Degradation rate > 60 % Test duration 28 d	OECD 301B/ ISO 9439/ EEC 92/69/V, C.4-C	CAS No166736-08-9 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 No27458-92-0 isotridecanol

**12.3 Bioaccumulative potential**

**Assessment/classification**

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

**12.4 Mobility in soil**

**Assessment/classification**

tetrapotassium pyrophosphate: moderately mobile in soil (Koc: ~150).  
 C10- fatty alcohol, alkoxyated: Adsorption on soil is possible.  
 isotridecanol, ethoxylated: Koc: >5000, strong adsorption on soil, immobile.  
 potassium hydroxide: Dissolves in water. Highly mobile in soil.  
 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.



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**Additional ecotoxicological information**

	Value	Method	Source, Remark
Chemical oxygen demand (COD)	approx. 355 mgO <sub>2</sub> /g	calculated.	
AOX			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.

**\* SECTION 13: Disposal considerations**

**\* 13.1 Waste treatment methods**

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

Waste code product	Waste name
200129 *	detergents containing hazardous substances

Waste code packaging	Waste name
150110 *	packaging containing residues of or contaminated by hazardous substances

**\* Appropriate disposal / Product**  
Do not dispose with household waste. Do not discharge into the drains.  
Dispose of waste according to applicable legislation.

**Appropriate disposal / Package**  
Non-contaminated packages may be recycled.  
Handle contaminated packages in the same way as the substance itself.

**\* Other disposal recommendations**  
Application solution / cleaning solution :  
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.

**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>	UN 1814	UN 1814	UN 1814
<b>14.2 UN proper shipping name</b>	POTASSIUM HYDROXIDE SOLUTION	POTASSIUM HYDROXIDE SOLUTION	Potassium hydroxide solution
<b>14.3 Transport hazard class(es)</b>	8	8	8
<b>14.4 Packing group</b>	III	III	III
<b>14.5 Environmental hazards</b>	No	No	No

**14.6 Special precautions for user**  
none

**14.7 Maritime transport in bulk according to IMO instruments**  
not relevant



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**Land transport (ADR/RID)**

UN number or ID number UN 1814  
UN proper shipping name POTASSIUM HYDROXIDE SOLUTION  
Transport hazard class(es) 8  
Hazard label(s) 8  
Classification code C5  
Packing group III  
Environmental hazards No  
Limited quantity (LQ) 5 L  
Special provisions -  
Tunnel restriction code E

**Sea transport (IMDG)**

UN number or ID number UN 1814  
UN proper shipping name POTASSIUM HYDROXIDE SOLUTION  
Transport hazard class(es) 8  
Packing group III  
Environmental hazards No  
Limited quantity (LQ) 5 L  
Marine pollutant No  
EmS F-A, S-B

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

UN number or ID number UN 1814  
UN proper shipping name Potassium hydroxide solution  
Transport hazard class(es) 8  
Packing group III  
Environmental hazards No

**\* 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).

**\* Other regulations (EU)**

**\* To follow:**  
Regulation (EC) No. 648/2004 (Detergents regulation)  
Directive 2012/18/EU, Annex I: not mentioned.



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**Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC**  
VOC content, delivery state 0 %

**15.2 Chemical Safety Assessment**

**National regulations**

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

EmS: emergency procedures

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

TRGS: Technical Rules for Hazardous Substances

VOC: Volatile organic compounds

vPvB: very persistent, very bioaccumulative

Met. Corr. 1: Corrosive to metals, Category 1

Acute Tox. 3, H301: Acute Toxicity (oral), Category 3

Acute Tox. 4, H302: Acute Toxicity (oral), Category 4

Skin Corr. 1A: Skin corrosion, Sub-category 1A

Skin Irrit. 2: Skin irritation, Category 2

Eye Dam. 1: Serious eye damage, Category 1

Eye Irrit. 2: Eye irritation, Category 2

Aquatic Acute 1: Short-term (acute) aquatic hazard, Category 1

Aquatic Chronic 1: Long-term (chronic) aquatic hazard, Category 1

**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)**

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.



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H410 Very toxic to aquatic life with long lasting effects.

**Indication of changes**

\* Data changed compared with the previous version