

### elma clean 280 dip&splash (EC 280 d&s)

Print date	14.09.2022
Revision date	23.08.2022
Version	1.6 (en)
replaces version of	06.04.2021 (1.5)

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

\* 1.1 Product identifier

Trade name/designation	elma clean 280 dip&splash (EC 280 d&s)	
Unique Formula Identifier	UFI:9K20-C0G0-5007-PWNT	
Product category	PC-CLN-OTH Other cleaning, care and maintenance products (excludes biocidal products)	

#### Hazard components

phosphoric acid ...%, isotridecanol, ethoxylated, C10- fatty alcohol, alkoxylated

# 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)

#### Product Categories [PC]

PC35 Washing and cleaning products

### Use of the substance/mixture

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

#### 1.3 Details of the supplier of the safety data sheet

#### Supplier

Elmá 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

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

#### \* 1.4 Emergency telephone number

Vergiftungs-Informations-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.
Acute Tox. 4, H302	Calculation method.
Skin Corr. 1B, H314	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

H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage. H318 Causes serious eye damage.

#### Hazard pictograms



#### 2.2 Label elements \*

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

Signal word

Danger

#### **Hazard statements**

H290 May be corrosive to metals. H302 Harmful if swallowed. H314 Causes severe skin burns and eye damage.

#### **Precautionary statements**

P260 Do not breathe mist/vapours/spray. P280 Wear protective gloves/protective clothing and eye/face protection.

P234 Keep only in original packaging. P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting. P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/doctor. 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. P303 + P361 + P353 IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water or shower. P332 + P313 If skin irritation occurs: Get medical advice/attention.

#### Other labelling

Labelling for contents according to regulation (EC) No. 648/2004: 15 - 30% non-ionic surfactants

≥ 30% phosphates (phosphoric acid)

#### 2.3 Other hazards \*

#### Adverse human health effects and symptoms

Acute Tox. 5 (dermal + inhalation) H313+H333: May be harmful in contact with skin or if inhaled. Inhalation of spray may be harmful, may cause strong respiratory irritation and may cause damage to mucous membranes/lung. 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



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#### 3.2 Mixtures

Hazardous in	ngredients				
CAS No.	EC No.	Substance name	Concentration	Classification according to Regulation (EC) No 1272/2008 [CLP]	SCL/ M/ ATE
7664-38-2	231-633-2	phosphoric acid%	40 - 60 weight-%	Met. Corr. 1; H290 Acute Tox. 4; H302 Skin Corr. 1B; H314 Eye Dam. 1; H318	Skin Corr. 1B;H314: C>=25% Skin Irrit. 2;H315: 10%<=C<25% Eye Irrit. 2;H319: 10%<=C<25%
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%< td=""></c=10%<>
34590-94-8	252-104-2	(2-methoxymethylethoxy)- propanol	5 - 15 weight-%		
166736-08-9		C10- fatty alcohol, alkoxylated	< 5 weight-%	Acute Tox. 4; H302 Eye Dam. 1; H318	
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			
01-2119485924-24		phosphoric acid …%			
Not relevant (	(polymer).	isotridecanol, ethoxylated			
01-21194500	11-60	(2-methoxymethylethoxy)-propa	inol		
Not relevant (polymer).		C10- fatty alcohol, alkoxylated			

Not relevant (impurity). isotridecanol

#### Additional information

Strongly acid aqueous mixture of non-ionic surfactants, solvents and phosphoric acid.

# \* SECTION 4: First aid measures

## 4.1 Description of first aid measures

#### **General information**

Remove contaminated, saturated clothing immediately.

#### **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 immediately with plenty of 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. Call a physician immediately.

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

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

- Effects
  - Risk of stomach perforation.

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

#### Notes for the doctor Keep under medical supervision for at least 48 hours.

# \* SECTION 5: Firefighting measures

#### 5.1 Extinguishing media

Suitable extinguishing media alcohol resistant foam Extinguishing powder Carbon dioxide (CO2) Water spray jet

#### 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

#### \* 5.3 Advice for firefighters

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

#### \* **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. Wear acid-resistent boots. 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. Do not allow to enter into soil/subsoil.

#### 6.3 Methods and material for containment and cleaning up

#### For containment

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.



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**For cleaning up** Suitable material for diluting or neutralizing: Soda Lime

#### \* 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. Do not inhale gases/vapours/aerosols. Avoid contact with eyes and skin. Use only acid-proof equipment. When diluting/dissolving, always have the water ready first, then slowly stir in the product. Keep the packing dry and well sealed to prevent contamination and absorbtion of humidity. The product is not combustible.

# Advices on general occupational hygiene Make available sufficient washing facilities

Remove contaminated, saturated clothing immediately. Keep away from food and drink.

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

#### Requirements for storage rooms and vessels Suitable floor material: Acid-resistant

Acid-resistant Keep only in unopened original container. Keep container tightly closed.

#### Storage class

8B Non-combustible corrosive substances

#### Materials to avoid

Do not store together with: alkali

# Further information on storage conditions Keep locked up and out of reach of children.

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: 4 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
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m³] Short-term(mg/m³) 2 2000/39/EC



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CAS No.	EC No.	Substance name	occupational exposure limit value
34590-94-8	252-104-2	(2-Methoxymethylethoxy)-propanol	50 [ml/m³(ppm)] 308 [mg/m³] skin resorptive 2000/39/EC
34590-94-8	252-104-2	(2-Methoxymethylethoxy)propanol	50 [ml/m³(ppm)] 308 [mg/m³] (IE)
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m³] Short-term(mg/m³) 2 (1) (1) 15 minutes reference period (IE)
34590-94-8	252-104-2	(2-Methoxymethylethoxy)propanol	50 [ml/m³(ppm)] 308 [mg/m³] (UK)
7664-38-2	231-633-2	Orthophosphoric acid	1 [mg/m³] Short-term(mg/m³) 2 (UK)
7664-38-2	231-633-2	phosphoric acid	1 [mg/m³] Short-term(mg/m³) 2 EU

#### **DNEL** worker

CAS No.	Substance name	DNEL value	DNEL type	Remark
7664-38-2	phosphoric acid%	1 mg/m³	long-term inhalative (local)	

#### 8.2 Exposure controls

#### Appropriate engineering controls

Technical measures to prevent exposure Splash cleaning only in enclosed systems.

#### Personal protection equipment

Eye/face protection tightly fitting goggles

#### Hand protection

chemical-resistant gloves Glove material specification [make/type, thickness]: FKM, 0.4mm. Glove material specification [make/type, thickness]: Butyl, 0.5mm.

#### **Body protection:** Required properties:

Required propertie acid-resistant

#### **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.

## \* SECTION 9: Physical and chemical properties

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

Physical state liquid

\* Colour

colourless up to yellowish



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Odour characteristic

	Value	Method	Source, Remark
Odour threshold:			(2-methoxymethylethoxy)- propanol: 210 - 600mg/m3 (34 - 97 ppm).
Melting point/freezing point	solidifying range < -5 °C		
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 14 Vol-%		Value of (2- methoxymethylethoxy)- propanol.
Lower and upper explosion limit	Lower explosion limit 1.1 Vol-%		Value of (2- methoxymethylethoxy)- propanol.
Flash point			No flash point up to 100 °C
Auto-ignition temperature	205 °C		Value of (2- methoxymethylethoxy)- propanol.
Decomposition temperature	≥ 100 °C		
рН	in delivery state < 1		
Viscosity	dynamic 132 mPa*s (20°C)		
Solubility(ies)	Water solubility		miscible
Partition coefficient n-octanol/water (log value)	-0.77		Value of phosphoric acid.
Vapour pressure	17- 24 hPa (20°C)		
Density and/or relative density	approx. 1.32 g/cm³		
Relative vapour density	5.12		Value of (2- methoxymethylethoxy)- propanol.
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).



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#### 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.

#### **Oxidising liquids**

#### Assessment/classification

The mixture does not contain any oxidising substances.

#### **Oxidising solids**

- Assessment/classification
  - not applicable (liquid).



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#### **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)	> 6.25 mm/a	Expert judgement and weight of evidence determination.	

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).
Evaporation rate			(2-methoxymethylethoxy)- propanol: ~0.02 (ASTM D3539).
Solvent content	5- 15 %		
Explosive properties			none
Oxidising properties			none

Other information No further relevant informations available.

# **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

Exothermic reaction with alkalies. 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 alkalies.

#### 10.4 Conditions to avoid

Heat and direct solar radiation.

#### 10.5 Incompatible materials

Oxidising agent, strong Corrodes aluminium. Alkali (lye)



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#### **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	1897 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No.7664-38-2 phosphoric acid …% LD50: 1530 mg/kg Species Rat		
	CAS No.69011-36-5 isotridecanol, ethoxylated 500 mg/kg	ATE: Acute Toxicity Estimate	
	CAS No.166736-08-9 C10- fatty alcohol, alkoxylated 500 mg/kg	ATE: Acute Toxicity Estimate	
Acute dermal toxicity	4273 mg/kg	ATE: Acute Toxicity Estimate	The acute dermal toxicity corresponding to GHS- category 5.
	CAS No.7664-38-2 phosphoric acid …% LD50: 2740 mg/kg Species Rabbit		
Acute inhalation toxicity	Acute inhalation toxicity (dust/mist) 5.1 mg/L	ATE: Acute Toxicity Estimate	
	Acute inhalation toxicity (vapour) > 50 mg/L	ATE: Acute Toxicity Estimate	
Assessment/classification Harmful if swallowed. May be harmful if inhaled.			
n corrosion/irritation			
Animal data			
Result / Evaluation	Method	Source, Remark	
Corrosive.	Calculation method.		
rious eye damage/irritation			
Animal data			
Result / Evaluation	Method	Source, Remark	
Corrosive	Calculation method.		

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

#### \* Skin sensitisation

\*

\*



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

#### Germ cell mutagenicity

Animal data

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.



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#### \* Other information

If swallowed danger of perforation of the esophagus and the stomach (strong corrosive effects). Inhalation of spray may cause strong respiratory irritation and may cause damage to mucous membranes/lung. Causes burns.

# \* SECTION 12: Ecological information

# \* 12.1 Toxicity

#### Aquatic toxicity

	Effective dose	Method,Evaluation	Source, Remark
Acute (short-term) fish toxicity	LC50: 3.3 mg/L	calculated.	
	CAS No.27458-92-0 isotridecanol LC50: 0.55 mg/L Species Danio rerio (zebrafish) Test duration 96 h	OECD 203	
Chronic (long-term) fish toxicity	not determined		
Acute (short-term) toxicity to crustacea	EC50 5.8 mg/L	calculated.	
	CAS No.27458-92-0 isotridecanol EC50 0.391 mg/L Species Daphnia magna (Big water flea) Test duration 48 h	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 6.9 mg/L	calculated.	
	CAS No.27458-92-0 isotridecanol EC50 0.297 mg/L Species Desmodesmus subspicatus Test duration 72 h	OECD 201	
Chronic (long-term) toxicity to aquatic algae and cyanobacteria	not determined		
Toxicity to other aquatic plants/organisms	not determined		
Toxicity to microorganisms	not determined		

## 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 100 %	Neutralization, pH- measurement	Acid properties can be eliminated up to 100% by neutralization.
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



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Biodegradation	Degradation rate > 60 % Test duration 28 d		301B/ ISO 9439/ 2/69/V, C.4-C	CAS No.166736-08-9 C10- fatty alcohol, alkoxylated
Biodegradation	Degradation rate 90- 10 Test duration 28 d		301F/ ISO 9408/ 2/69/V, C.4-D	CAS No.27458-92-0 isotridecanol
Biodegradation				CAS No.7664-38-2 phosphoric acid%
				Inorganic product which is not eliminable from water through biological cleaning processes.
Biodegradation	Degradation rate > 70 % Test duration 28 d	OECD : C.4-B	301E/ EEC 92/69/V,	CAS No.34590-94-8 (2- methoxymethylethoxy)- propanol
Biodegradation	Degradation rate 90- 10 Test duration 28 d		302B/ ISO 9888/ //69/V, C.9	CAS No.34590-94-8 (2- methoxymethylethoxy)- propanol

#### 12.3 Bioaccumulative potential

Assessment/classification isotridecanol, ethoxylated: Bioaccumulation is improbable. phosphoric acid: Accumulation in organisms is not expected. C10- fatty alcohol, alkoxylated: 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).

#### 12.4 Mobility in soil

Assessment/classification isotridecanol, ethoxylated: Koc: >5000, strong adsorption on soil, immobile. phosphoric acid: not available. C10- fatty alcohol, alkoxylated: Adsorption on soil is possible. isotridecanol: not available. (2-methoxymethylethoxy)-propanol: Dissolves in water. Highly mobile in soil.

#### 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 informatio	n		
	Value	Method	Source, Remark
Chemical oyxgen demand (COD)	approx. 504 mgO2/g	calculated.	



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Method

5) Source, Remark

The product does not contain any organically bound halogens according to the recipe.

#### Additional information

AOX

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.

Value

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

#### Appropriate disposal / Product

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

### Appropriate disposal / Package

Non-contaminated packages may be recycled. Handle contaminated packages in the same way as the substance itself.

# **SECTION 14: Transport information**

	Land transport (ADR/RID)	Sea transport (IMDG)	Air transport (ICAO-TI / IATA- DGR)
14.1 UN number or ID number	1805	1805	1805
14.2 UN proper shipping name	PHOSPHORIC ACID SOLUTION	PHOSPHORIC ACID SOLUTION	Phosphoric acid, solution
14.3 Transport hazard class(es)	8	8	8
14.4 Packing group	111	III	111
14.5 Environmental hazards	No	No	No

14.6 Special precautions for user

none

14.7 Maritime transport in bulk according to IMO instruments

not relevant

#### Land transport (ADR/RID)

UN number or ID number	1805
UN proper shipping name	PHOSPHORIC ACID SOLUTION
Transport hazard class(es)	8
Hazard label(s)	8
Classification code	C1



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Packing group	III
Environmental hazards	No
Limited quantity (LQ)	5 L
Special provisions	-
Tunnel restriction code	Е

#### Sea transport (IMDG)

UN number or ID number	1805
UN proper shipping name	PHOSPHORIC ACID SOLUTION
Transport hazard class(es)	8
Packing group	Ш
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	1805
UN proper shipping name	Phosphoric acid, 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.

**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.

#### Directive 2010/75/EU on industrial emissions [Industrial Emissions Directive] VOC VOC content, delivery state approx. 7.5 %

### **15.2 Chemical Safety Assessment**

#### National regulations

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



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## \* 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 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

#### 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.
- H302 Harmful if swallowed.
- H314 Causes severe skin burns and eye damage.
- H315 Causes skin irritation.
- H318 Causes serious eye damage.
- 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