

No. 1907/2006 (REACH)
Printed 06.11.2014

revision 06.11.2014 (GB) Version 2.1

elma tec clean A4

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

#### 1.1. Product identifier

Name of product elma tec clean A4

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

#### Identified uses

#### ! Sector of uses [SU]

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

## ! Recommended intended purpose(s)

This data sheet holds beginning from lot-No. 06, week 10, 2014.

Universal alkaline cleaning concentrate.

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

Manufacturer/distributor Elma Schmidbauer GmbH

Gottlieb-Daimler-Str. 17, D-78224 Singen (Htwl.) Phone +49 7731 882-0, Fax +49 7731 882-266

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Advice Chemie/Labor: Email: chemlab@elma-ultrasonic.com

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1.4. Emergency telephone number

Emergency advice Vergiftungs-Informations-Zentrale Freiburg

(Sprache/Language: D, GB) Phone +49 761 19240

## ! SECTION 2: Hazards identification

## 2.1. Classification of the substance or mixture

## Classification according to 67/548/EEC or 1999/45/EC

Xi; R38 Xi; R41

## R-phrases

38 Irritating to skin.

41 Risk of serious damage to eyes.

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

Hazard classes and Hazard

Hazard Statements Classification procedure

categories

Skin Irrit. 2 H315 Bridging principle 'Substantially similar mixtures.'

Eye Dam. 1 H318 On basis of test data.

## **Hazard Statements**

H315 Causes skin irritation.

H318 Causes serious eye damage.

## 2.2. Label elements



No. 1907/2006 (REACH) Printed 06.11.2014

revision 06.11.2014 (GB) Version 2.1

elma tec clean A4

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



GHS05

## ! Signal word

Danger

#### **Hazard Statements**

H315 Causes skin irritation. H318 Causes serious eye damage.

## **Precautionary Statements**

P280	Wear protective gloves/eye protection.
P301 + P310 P301 + P330 + P331	IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P352 P305 + P351 + P338 P310 P332 + P313	IF ON SKIN: Wash with plenty of soap and water. IF IN EYES: Rinse cautiously with water for several minuts. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician. If skin irritation occurs: Get medical advice/attention.

## ! Hazardous ingredients for labeling

Cocosfatty acid amidopropyldimethylaminoxide, disodium metasilicate

#### 2.3. Other hazards

not relevant

## 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 alkaline mixture from anionic and amphoteric surfactants, sodium trioxosilicate and complexing agents.

## **Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
111798-26-6		Na-alkyl-PEG-ether ester of phosphoric acid	5 - 15	Xi R36/38; R52/53
68155-09-9	268-938-5	Cocosfatty acid amidopropyldimethylaminoxide	< 5	Xi R38-41; N R51/53
6834-92-0	229-912-9	disodium metasilicate	< 5	C R34; Xi R37
7320-34-5	230-785-7	tetrapotassium pyrophosphate	5 - 15	Xi R36



No. 1907/2006 (REACH)
Printed 06.11.2014

revision 06.11.2014 (GB) Version 2.1

## elma tec clean A4

Hazardous	ingredients (	(continued)		
CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
111798-26-6		Na-alkyl-PEG-ether ester of phosphoric acid	5 - 15	Skin Irrit. 2, H315 / Eye Irrit. 2, H319 / Aquatic Chronic 3, H412
68155-09-9	268-938-5	Cocosfatty acid amidopropyldimethylaminoxide	< 5	Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Aquatic Chronic 2, H411
6834-92-0	229-912-9	disodium metasilicate	< 5	Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / STOT SE 3, H335
7320-34-5	230-785-7	tetrapotassium pyrophosphate	5 - 15	Eye Irrit. 2, H319
REACH				
CAS No	Name			<b>REACH</b> registration number
111798-26-6	•	G-ether ester of phosphoric acid		Not yet known.
68155-09-9	Cocosfatty acid amidopropyldimethylaminoxide Not yet registered (ECHA			Not yet registered (ECHA).
6834-92-0	disodium me	tasilicate		01-2119449811-37
7320-34-5	tetrapotassiu	m pyrophosphate		01-2119489369-18

## **!SECTION 4: First aid measures**

## 4.1. Description of first aid measures

## **General information**

Remove contaminated soaked clothing immediately and dispose it safely.

## In case of skin contact

In case of contact with skin wash off immediately with plenty of water.

Consult a doctor if skin irritation persists.

## In case of eye contact

In case of contact with eyes rinse thoroughly with plenty of water and seek medical advice.

## ! In case of ingestion

Do not induce vomiting.

Medical treatment.

Seek medical advice immediately.

Rinse out mouth and give plenty of water to drink.

# $\ \, \textbf{4.2. Most important symptoms and effects}, \textbf{both acute and delayed} \\$

## 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)

Keep under medical supervision for at least 48 hours.

## **SECTION 5: Firefighting measures**

## 5.1. Extinguishing media

## Suitable extinguishing media

water

Fire-extinguishing activities according to surrounding.

Foam

Dry powder

Carbon dioxide



No. 1907/2006 (REACH)
Printed 06.11.2014

revision 06.11.2014 (GB) Version 2.1

elma tec clean A4

## Unsuitable extinguishing media

no

## 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:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Phosphorus oxides (e.g. phosphoruspentoxide)

Silicon dioxide

#### 5.3. Advice for firefighters

## Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.

## ! SECTION 6: Accidental release measures

## 6.1. Personal precautions, protective equipment and emergency procedures

## For non-emergency personnel

Use personal protection.

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

## ! For emergency responders

Use personal protective clothing.

Use personal protection.

Forms slippery surfaces with water.

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

## 6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

Do not discharge into the subsoil/soil.

## 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!

## General protective measures

Avoid contact with eyes and skin

## 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.



No. 1907/2006 (REACH)
Printed 06.11.2014

revision 06.11.2014 (GB) Version 2.1

elma tec clean A4

# 7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Keep only in original container.

## Advice on storage compatibility

Do not store with acids.

## 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 ℃.

## Information on storage stability

Storage time: 5 years.

#### 7.3. Specific end use(s)

## Recommendation(s) for intended use

no further

## **SECTION 8: Exposure controls/personal protection**

## 8.1. Control parameters

#### **Additional advice**

Occupational exposure limits: not relevant.

## 8.2. Exposure controls

## **Hand protection**

Gloves (alkali-resistant)

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]: NR, 0,5mm.

## Eye protection

tightly fitting goggles

#### Limitation and surveillance of the environment

Neutralization is normally necessary before a waste water is discharged into sewage treatment plants.

Avoid penetration into the subsoil/soil.

Do not discharge into surface waters.

## **! SECTION 9: Physical and chemical properties**

## 9.1. Information on basic physical and chemical properties

AppearanceColourOdourliquidyellowish up to beigemild

#### **Odour threshold**

not determined

## Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	ca. 13	20 ℃			
starts to boil	> 100 °C				



# Safety Data Sheet according to Regulation (EC) No. 1907/2006 (REACH) Printed 06.11.2014 revision 06.11.2014 (GB) Version 2.1

## elma tec clean A4

	Value	Temperature	at	Method	Remark
solidifying range	< -5 ℃				
Flash point					No flash point below 100 ℃.
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature					not spontaneously flammable
Lower explosion limit	not relevant				
Upper explosion limit	not relevant				
Vapour pressure	ca. 23 hPa	20 ℃			
Relative density	1,132 g/cm3	20 ℃			
Vapour density	not available				
Solubility in water					miscible
Solubility/other	not determined				
Partition coefficient n- octanol/water (log P O/W)	ca2				Value of tetrapotassium pyrophosphate
Decomposition temperature	>= 100 °C				
Viscosity	not determined				
Solvent concentration	0 %				
Vapourisation rate Water: 0.36 (ASTM D3539).					
Oxidising properties no					
Explosive properties no					
<b>9.2. Other information</b> No further relevant informatio	ns available.				



No. 1907/2006 (REACH)
Printed 06.11.2014

revision 06.11.2014 (GB) Version 2.1

elma tec clean A4

## **SECTION 10: Stability and reactivity**

#### 10.1. Reactivity

Evolution of heat under influence of acids.

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 acids.

#### 10.4. Conditions to avoid

Heat and direct solar radiation.

## 10.5. Incompatible materials

## Materials to avoid

Reactions with acids.

## 10.6. Hazardous decomposition products

No decomposition if used as directed.

## **!SECTION 11: Toxicological information**

## 11.1. Information on toxicological effects

## Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg	rat	calculated	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	
Irritability skin	irritant			
Irritability eye	risk of strong eye injuries		OECD 437	
Skin sensitization	non-sensitizing			

## 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.



No. 1907/2006 (REACH)
Printed 06.11.2014

revision 06.11.2014 (GB) Version 2.1

elma tec clean A4

## **! SECTION 12: Ecological information**

## 12.1. Toxicity

**Ecotoxicological effects** 

LCOIOXICOIO	Value	Species	Method	Validation
Fish	LC50 114 mg/l		calculated	
Daphnia	EC50 433 mg/l		calculated	
Algae	EC50 115 mg/l		calculated	

## 12.2. Persistence and degradability

Physico-chemical<br/>degradability100 %Neutralization, pH-<br/>measurementAlkaline properties can be<br/>eliminated up to 100% by<br/>neutralization.

DOC decrease

Biodegradable

Biological degradability

> 70 %

## 12.3. Bioaccumulative potential

disodium metasilicate: Accumulation in organisms is not expected. tetrapotassium pyrophosphate: Bioaccumulation is improbable. Na-alkyl-PEG-ether ester of phosphoric acid: not available. Cocosfatty acid amidopropyldimethylaminoxide: not available.

## 12.4. Mobility in soil

tetrapotassium pyrophosphate: not available.

disodium metasilicate: not available.

Na-alkyl-PEG-ether ester of phosphoric acid: not available. Cocosfatty acid amidopropyldimethylaminoxide: 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

<b></b>	Value	Method	Remark
COD	165 mgO2/g	calculated	
AOX	The product does not	contain any organically bou	nd 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.

The mixture is not classified as acute/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 29\* detergents containing dangerous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.



No. 1907/2006 (REACH)
Printed 06.11.2014

revision 06.11.2014 (GB) Version 2.1

elma tec clean A4

#### Recommendations for the product

Do not dispose with household waste.

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.

## 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	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	<b>3</b> -	-	-

## 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 %



No. 1907/2006 (REACH)
Printed 06.11.2014

revision 06.11.2014 (GB) Version 2.1

elma tec clean A4

## 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: 2.0

## Sources of key data used

Own measurements.

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

R 34 Causes burns.

R 36 Irritating to eyes.

R 36/38 Irritating to eyes and skin.

R 37 Irritating to respiratory system.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 51/53 Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

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.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.