

No. 1907/2006 (REACH) Printed 25.04.2012

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elma tec clean A5

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

Product identifier

Name of product elma tec clean A5

Relevant identified uses of the substance or mixture and uses advised against Recommended intended purpose(s)

Alkaline cleaning powder for aqueous immersion cleaning with ultrasonics of metal, light metal and plastic surfaces. Contains inhibitors protecting amphoteric metals (aluminium a.s.o.).

Details of the supplier of the safety data sheet

Manufacturer/distributor ELMA Hans Schmidbauer GmbH & Co KG

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Emergency telephone number

Vergiftungs-Informations-Zentrale Freiburg **Emergency advice**

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!SECTION 2: Hazards identification

Classification of the substance or mixture

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

C; R34 Xi; R37

R-phrases

34 Causes burns.

37 Irritating to respiratory system.

Label elements

Labelling according to 67/548/EEC or 1999/45/EC

Remarks for labelling

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

Corrosive C



R-phrases

Causes burns. 34

37 Irritating to respiratory system.



No. 1907/2006 (REACH) Printed 25.04.2012

revision 05.05.2006 (GB) Version 1.3

elma tec clean A5

! S-phrases

22 Do not breathe dust.

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

After contact with skin, wash immediately with plenty of water.

36/37/39 Wear suitable protective clothing, gloves and eye/face protection.

45 In case of accident or if you feel unwell, seek medical advice immediately (show the label

where possible).

Hazardous ingredients for labeling

disodium trioxosilicate

Other hazards

not relevant

PBT/vPvB: see chapter 12.

!SECTION 3: Composition/ information on ingredients

Mixtures

Description

Mixture (powder) with silikates, carbonates, phosphates of alkalies, anionic and nonionic surfactants.

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
61827-42-7		fattyalcoholethoxylate	< 5	Xn R22; Xi R41
61791-14-8		cocosfattyaminoxethylate	< 5	Xn R22; Xi R36; N R51/53
6834-92-0	229-912-9	disodium trioxosilicate	20 - 40	C R34; Xi R37
7722-88-5	217-671-6	tetrasodium pyrophosphate	5 - 15	Xn R22; Xi R41
497-19-8	207-838-8	sodium carbonate	5 - 15	Xi R36
	932-051-8	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and	< 5	Xi R41-38
		sodium hydroxid		
CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
61827-42-7		fattyalcoholethoxylate	< 5	Acute Tox. 4, H302 / Eye Dam. 1, H318
61791-14-8		cocosfattyaminoxethylate	< 5	Acute Tox. 3, H301 / Eye Irrit. 2, H319 / Aqu. chron. 2, H411
6834-92-0	229-912-9	disodium trioxosilicate	20 - 40	Acute Tox. 4, H302 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / STOT SE 3, H335
7722-88-5	217-671-6	tetrasodium pyrophosphate	5 - 15	Acute Tox. 4, H302 / Eye Dam. 1, H318
497-19-8	207-838-8	sodium carbonate	5 - 15	Eye Irrit. 2, H319
	932-051-8	Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and	< 5	Skin Irrit. 2, H315 / Eye Dam. 1, H318
		Benzenesulfonic acid, 4-methyl- and sodium hydroxid		
REACH				
CAS No	Name			REACH registration number
497-19-8	sodium carbo		01-2119485498-19	
	•	duct of Benzenesulfonic acid, 4-C10-13-sec-alkyl de onic acid, 4-methyl- and sodium hydroxid	erivs. and	01-2119565112-48



No. 1907/2006 (REACH) Printed 25.04.2012

revision 05.05.2006 (GB) Version 1.3

elma tec clean A5

SECTION 4: First aid measures

Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely.

Take affected person into fresh air.

In case of inhalation

Ensure of fresh air.

Refer for medical treatment.

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.

Call for a doctor immediately.

Rinse out mouth and give plenty of water to drink.

Most important symptoms and effects, both acute and delayed

Physician's information / possible dangers

Risk of stomach perforation

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

Extinguishing media

Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

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)

Carbon dioxide (CO2)

Sulfur oxide

Advice for firefighters

Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.

Do not inhale explosion and/or combustion gases.

! SECTION 6: Accidental release measures



No. 1907/2006 (REACH)
Printed 25.04.2012

revision 05.05.2006 (GB) Version 1.3

elma tec clean A5

Personal precautions, protective equipment and emergency procedures

Keep people away and stay on the upwind side.

Avoid dust formation.

Use personal protection.

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

Environmental precautions

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

Knock down dust with water spray jet.

Do not discharge into the subsoil/soil.

Methods and material for containment and cleaning up

Flush away residues with water.

After taking up the material dispose according to regulation.

Take up mechanically.

Reference to other sections

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

Informations for disposal see chapter 13.

! SECTION 7: Handling and storage

Precautions for safe handling

Advice on safe handling

Avoid the formation and deposition of dust.

Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace

Open and handle container with care!

Advice on protection against fire and explosion

The product is not combustible.

Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels

Provide alkali-resistant floor.

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

Keep container dry and tightly closed.

Product is hygroscopic.

Information on storage stability

Storage time: 5 years.

Specific end use(s)

! Recommendation(s) for intended use

no further

! SECTION 8: Exposure controls/personal protection



No. 1907/2006 (REACH) Printed 25.04.2012

revision 05.05.2006 (GB) Version 1.3

elma tec clean A5

Control parameters

! Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
7722-88-5	tetrasodium pyrophosphate	WEL, 8 hours	5		

Additional advice

Exposure controls

! Respiratory protection

Particle filter P2

In case of dust formation wear micro dust mask.

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, permeation time/life]: FKM, 0,4mm, >=8h. Glove material specification [make/type, thickness]: NR, 0,5mm.

Eye protection

tightly fitting goggles

Skin protection

Alkali-resistant protective clothing

General protective measures

Avoid contact with eyes and skin

Do not inhale dust.

Hygiene measures

Provide washing facilities at place of work.

Keep away from food and drink.

! SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

Form Colour Odour powder white characteristic

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	ca. 12	20 ℃	10 g/l		
boiling range	not determined				
melting range	not determined				
Flash point	not applicable				
Flammable solid	no				
Flammability (gas)	not applicable				
Ignition temperature					no



No. 1907/2006 (REACH) Printed 25.04.2012

revision 05.05.2006 (GB) Version 1.3

elma tec clean A5

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	Value	Temperature	at	Method	Remark
Autoignition	no				
Lower explosion limit	not applicable				
Upper explosion limit	not applicable				
Vapour pressure	not available				
Density	not determined				
Bulk density	920 kg/m3				
Rel. vapour density	not applicable				
Solubility in water	100 g/l	20 ℃			
Partition coefficient (log pOW)	not available				
Viscosity	not applicable				
Solvent concentration	0 %				
Oxidizing properties					
Explosive properties					
Other information No further relevant information	ons available.				

! SECTION 10: Stability and reactivity

Reactivity

Evolution of heat under influence of acids.

No further hazardous reactions known if used as directed.

Chemical stability

Stable at ambient temperature.

Possibility of hazardous reactions

Reactions with acids.

Conditions to avoid

not relevant

Incompatible materials

Materials to avoid

Reactions with acids.



No. 1907/2006 (REACH) Printed 25.04.2012

revision 05.05.2006 (GB) Version 1.3

elma tec clean A5

Hazardous decomposition products

No decomposition if used as directed.

! SECTION 11: Toxicological information

Information on toxicological effects

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	990 mg/kg		ATE (acute toxicity estimate)	
LD50 acute dermal	> 2000 mg/kg		ATE (acute toxicity estimate)	
Irritability skin	corrosive			
Irritability eye	corrosive			
Skin sensitization	non-sensitizing			

! Toxicity test (Additional information)

disodium trioxosilicate: LD50(oral, rat): 600-1350 mg/kg.

Experiences made from practice

Has a degreasing effect on the skin.

Causes corrosions.

! SECTION 12: Ecological information

Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 18 mg/l		calculated	
Daphnia	EC50 16 mg/l		calculated	
Algae	EC50 30 mg/l		calculated	
Persistence an	d degradability			
Physico-chemic degradability	cal 100 %		Neutralization, pH- measurement	Alkaline properties can be eliminated up to 100% by neutralization.
Biological degradability	> 70 %		OECD 301 A	Biodegradable

Bioaccumulative potential

not available

Mobility in soil

not available

Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.



No. 1907/2006 (REACH) Printed 25.04.2012

revision 05.05.2006 (GB) Version 1.3

elma tec clean A5

Other adverse effects

No further relevant informations available.

Additional ecological information

Value Method Remark

COD ca. 0,2 gO2/g

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

! General regulation

The surfactants in our product meet the criteria for biodegradation as laid down in Annex III of the Regulation (EC) No 648/2004 on detergents.

Harmful to aquatic life.

Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

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 91/689/EEC on hazardous waste.

Recommendations for the product

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.

In accordance with local official regulations take to chemical / physical treatment plant.

Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken fot reuse.

Recommended cleansing agent

Water

!SECTION 14: Transport information

! Land and inland navigation transport ADR/RID

UN 3253 DISODIUM TRIOXOSILICATE, 8, III, (E)

Marine transport IMDG

UN 3253 DISODIUM TRIOXOSILICATE, 8, III

Air transport ICAO/IATA-DGR

UN 3253 DISODIUM TRIOXOSILICATE, 8, III

Special precautions for user

no

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant



No. 1907/2006 (REACH) Printed 25.04.2012

revision 05.05.2006 (GB) Version 1.3

elma tec clean A5

! SECTION 15: Regulatory information

Safety, health and environmental regulations/legislation specific for the substance or mixture

VOC standard

VOC content 0 %

Chemical Safety Assessment

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

!SECTION 16: Other information

! 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.

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

R 22 Harmful if swallowed.

R 34 Causes burns.

R 36 Irritating to eyes.

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.

H301	loxic 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.
H335	May cause respiratory irritation.
H411	Toxic to aquatic life with long lasting effects