



## Safety data-sheet (91/155 EEC)

Printed 26.10.2006

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### elma tec clean A4

## 1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

<b>Name of product</b>	<b>elma tec clean A4</b>
<b>Manufacturer/distributor</b>	ELMA Hans Schmidbauer GmbH & Co KG Kolpingstr. 1-7, D-78224 Singen (Htwl.) Phone +49 7731 882-0, Fax +49 7731 882-266 E-Mail info@elma-germany.com Internet www.elma-germany.com
<b>Advice</b>	Chemie/Labor Phone +49 7731 882-287 Fax +49 7731 882-266
<b>Emergency advice</b>	Vergiftungs-Informations-Zentrale Freiburg (Sprache/Language: D, GB) Phone +49 761 19240

**Recommended intended purpose(s)**  
Universal alkaline cleaning concentrate.

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical characterization

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

### Hazardous ingredients

CAS-No.	EC-No.	Name	[% weight]	Classification
005064-31-3	225-768-6	trisodium nitrilotriacetate	< 5	Xn R22; Xi R36
111798-26-6		Na-alkyl-PEG-ether ester of phosphoric acid	5 - 15	Xi R36/38; R52/53
68155-09-9		C8-C14-fatty acid amidopropyldimethylaminoxide	< 5	Xi R38-41; R52
6834-92-0	229-912-9	disodium trioxosilicate	< 5	C R34; Xi R37

## 3. HAZARDS IDENTIFICATION

### R-phrases

34 Causes burns.

## 4. 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

Call for a doctor immediately.  
Rinse out mouth and give plenty of water to drink.

### Treatment (Advice to doctor)

Keep under medical supervision for at least 48 hours.



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## 5. FIRE-FIGHTING MEASURES

### Suitable extinguishing media

water

Fire-extinguishing activities according to surrounding.

Foam

Dry powder

Carbon dioxide

### Extinguishing media which must not be used for safety reasons

no

### Special exposure hazards arising from the substance or preparation itself, combustion products, resulting gases

no

### Special protective equipment for fire-fighters

no

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## 6. ACCIDENTAL RELEASE MEASURES

### Personal precautions

Use personal protection.

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

### Environmental precautions

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

Do not discharge into the subsoil/soil.

### Methods for 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.

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## 7. HANDLING AND STORAGE

### Advice on safe handling

Open and handle container with care!

### 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

Do not keep at temperatures below -5°C.

### Information on storage stability

Storage time: 5 years.

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## ! 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### 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

### General protective measures

Avoid contact with eyes and skin

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**elma tec clean A4****Hygiene measures**

Provide washing facilities at place of work.  
Keep away from food and drink.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Form**  
liquid**Colour**  
yellowish**Odour**  
mild**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	13,3	20 °C			
<b>starts to boil</b>	> 100 °C				
<b>Flash point</b>					No flash point below 100°C.
<b>Combustion temperature</b>					no
<b>Autoignition</b>					no
<b>Density</b>	1,132 g/cm <sup>3</sup>	20 °C			
<b>Solubility in water</b>					miscible
<b>Solvent concentration</b>	0 %				
<b>Oxidizing properties</b>					no
<b>Explosive properties</b>					no

**10. STABILITY AND REACTIVITY****Conditions to avoid**

Reactions with acids.

**Hazardous decomposition products**

no

**11. TOXICOLOGICAL INFORMATION****Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD 50 acute oral</b>	> 5000 mg/kg	rat	calculated	
<b>Irritability skin</b>	corrosive			
<b>Irritability eye</b>	corrosive			
<b>Sensitization skin</b>	non-sensitising			



**Experiences made from practice**  
Has a degreasing effect on the skin.

## ! 12. ECOLOGICAL INFORMATION

### Data on elimination (persistence and degradability)

	Elimination rate	Method of analysis	Method	Validation
<b>Physico-chemical degradability</b>	100 %		Neutralization, pH-measurement	
<b>Biological degradability</b>	> 70 %		OECD 302 B	Biodegradable

### Additional ecological information

	Value	Method	Remark
<b>COD</b>	ca. 170 mgO <sub>2</sub> /g	DIN ISO 15705	
<b>AOX</b>	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.  
Do not discharge product unmonitored into the environment.

## 13. DISPOSAL CONSIDERATIONS

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.

### 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

## 14. TRANSPORT INFORMATION

### Land and inland navigation transport ADR/RID

UN 1719 CAUSTIC ALCALI LIQUID, N.O.S. (Disodium trioxosilicate), 8, III

### Marine transport IMDG

UN 1719 CAUSTIC ALCALI LIQUID, N.O.S. (Disodium trioxosilicate), 8, III

### Air transport ICAO/IATA-DGR

UN 1719 CAUSTIC ALCALI LIQUID, N.O.S. (Disodium trioxosilicate), 8, III



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## 15. REGULATORY INFORMATION

### Remarks for classification

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

### Classification

**C** Corrosive

### R-phrases

34 Causes burns.

### S-phrases

1/2 Keep locked up and out of reach of children.

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

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

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

46 If swallowed, seek medical advice immediately and show this container or label.

### Hazardous ingredients for labeling

disodium trioxosilicate

### VOC standard

VOC content 0 %

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## 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.

### Sources of key data used

Own measurements.

### Wording of the R-phrases specified in chapter 2 (not the classification of the formulation!)

R 22 Harmful if swallowed.

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 52 Harmful to aquatic organisms.

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