



Safety data-sheet (91/155 EEC)

Printed 03.05.2006

Revision 03.05.2006

**elma tec clean A3**

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

<b>Name of product</b>	<b>elma tec clean A3</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 Phone +49 761 19240

### Recommended intended purpose(s)

Alcaline cleaning concentrate for the metal cleaning (not for aluminium and light metal alloys).

## 2. COMPOSITION/INFORMATION ON INGREDIENTS

### Chemical characterization

Aqueous alkaline mixture of anionic and nonionic surfactants, disodium-metasilicate, complexing agents and hydrotropic component.

### Hazardous ingredients

CAS-No.	EC-No.	Name	[% weight]	Classification
005064-31-3	225-768-6	trisodium nitrilotriacetate	< 5	Xn R22; Xi R36
006834-92-0	229-912-9	disodium metasilicate	< 5	C R34; Xi R37
111798-26-6		Na-alkyl-PEG-ether ester of phosphoric acid	< 5	Xi R36/38; R52/53
68154-97-2		fattyalkohol, propoxylated, ethoxylated	< 5	Xi R38-41; N R51/53

## 3. HAZARDS IDENTIFICATION

### R-phrases

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

## 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

Do not induce vomiting.  
If swallowed seek medical advice immediately and show the doctor packing or label.  
Rinse out mouth and give plenty of water to drink.

**Treatment (Advice to doctor)**

Keep under medical supervision for at least 48 hours.

**5. FIRE-FIGHTING MEASURES****Suitable extinguishing media**

water

Product does not burn, fire-extinguishing activities according to surrounding.

Foam

Dry powder

Carbon dioxide

**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. general-purpose binder).

Flush away residues with water.

Use chemical neutralizers.

After taking up the material dispose according to regulation.

**7. HANDLING AND STORAGE****Advice on safe handling**

Open and handle container with care!

Take the usual precautions when handling with chemicals.

**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 container tightly closed.

Keep locked up, out of reach of children

Do not keep at temperatures below -5°C.

**Information on storage stability**

Storage time: 5 years.

**8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Ingredients with occupational exposure limits to be monitored**

CAS-No.	Name	Code	[mg/m <sup>3</sup> ]	[ml/m <sup>3</sup> ]	Remark
006834-92-0	disodium trioxosilicate	MAK	6		Feinstaubkonzentration

**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

**Hygiene measures**

Provide washing facilities at place of work.

Keep away from food and drink.

**9. PHYSICAL AND CHEMICAL PROPERTIES****Form**

liquid

**Colour**

light yellow

**Odour**

odourless

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	13	20 °C			
<b>boiling range</b>	> 100 °C				
<b>solidifying range</b>	< -5 °C				
<b>Flash point</b>					no
<b>Density</b>	1,125 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.

**Materials to avoid**

Reactions with acids.

**Hazardous decomposition products**

No hazardous decomposition products known.

**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			



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#### Experiences made from practice

Corrosive effect on skin and mucous membrane.

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	Alkaline properties can be eliminated up to 100% by neutralization.
<b>Biological degradability</b>	> 70 % The product is readily biodegradable to OECD criteria.		OECD 302 B	Biodegradable

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	LC50 > 80 mg/l (48 h)	Golden orfe		

#### Additional ecological information

	Value	Method	Remark
<b>COD</b>	ca. 262 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

Do not discharge product unmonitored into the environment.

## 13. DISPOSAL CONSIDERATIONS

#### Waste code No.

20 01 29\*

#### Name of waste

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



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

**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.  
45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).  
61 Avoid release to the environment. Refer to special instructions/safety data sheets.  
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

**Hazardous ingredients for labeling**

disodium metasilicate

**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 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.