



Safety data-sheet (91/155 EEC)

Printed 05.05.2006

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elma tec clean A5

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

Name of product	elma tec clean A5
Manufacturer/distributor	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
Advice	Chemie/Labor Phone +49 7731 882-287 Fax +49 7731 882-266
Emergency advice	Vergiftungs-Informations-Zentrale Freiburg Phone +49 761 19240

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.).

! 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

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

! Hazardous ingredients

CAS-No.	EC-No.	Name	[% weight]	Classification
000497-19-8	207-838-8	sodium-carbonate	5 - 15	Xi R36
61791-14-8	500-152-2	cocosfattyaminooxethylate	< 5	Xn R22; Xi R41; N R51/53
61827-42-7		fattyalcoholethoxylate	< 5	Xn R22; Xi R41
6834-92-0	229-912-9	disodium trioxosilicate	30 - 50	C R34; Xi R37
68411-30-3	270-115-0	alkylbenzenesulphonates, C10-13-alkylderivates, Na-salts	< 5	Xn R22; Xi R38-41
7722-88-5	217-671-6	tetrasodium pyrophosphate	5 - 15	Xi R36/37/38

3. HAZARDS IDENTIFICATION

R-phrases

34	Causes burns.
37	Irritating to respiratory system.

! 4. 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.

Physician's information / possible dangers

Risk of stomach perforation

Treatment (Advice to doctor)

Keep under medical supervision for at least 48 hours.

! 5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

! Special protective equipment for fire-fighters

Use breathing apparatus with independent air supply.
Do not inhale explosion and/or combustion gases.

! 6. ACCIDENTAL RELEASE MEASURES

! Personal precautions

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 for cleaning up

Flush away residues with water.
After taking up the material dispose according to regulation.
Take up mechanically.

! 7. HANDLING AND STORAGE

Advice on safe handling

Avoid the formation and deposition of dust.
Care for thoroughly room ventilation, if necessary suck off at workplace.
Open and handle container with care!

! Advice on protection against fire and explosion

The product is not combustible.

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.



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! 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

! Ingredients with occupational exposure limits to be monitored

CAS-No.	Name	Code	[mg/m ³]	[ml/m ³]	Remark
	dust	MAK	6		Allg.Grenzwert
000497-19-8	sodium-carbonate		6		Feinstaubkonzentration
006834-92-0	disodium trioxosilicate	MAK	6		Feinstaubkonzentration
007722-88-5	tetrasodium pyrophosphate	MAK	5 E		

Respiratory protection

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.

! 9. 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 °C	10 g/l		
melting range	not determined				
Flash point	not applicable				
Flammable solid	no				
Combustion temperature	no				
Autoignition	no				
Bulk density	920 kg/m ³				
Solubility in water	100 g/l	20 °C			

! Oxidizing properties

no

**! Explosive properties**

no

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

Reactions with acids.

Materials to avoid

Reactions with acids.

Hazardous decomposition products

Corrosive gases/vapours

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

	Value/Validation	Species	Method	Remark
Irritability skin	corrosive			
Irritability eye	corrosive			

Experiences made from practiceHas a degreasing effect on the skin.
Causes corrosions.**! 12. ECOLOGICAL INFORMATION****Data on elimination (persistence and degradability)**

	Elimination rate	Method of analysis	Method	Validation
Physico-chemical degradability	100 %		Neutralization, pH-measurement	Alkaline properties can be eliminated up to 100% by neutralization.
Biological degradability	> 70 %		OECD 301 A	Biodegradable

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

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.

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 for reuse.

Recommended cleansing agent

Water

14. TRANSPORT INFORMATION

Land and inland navigation transport ADR/RID

UN 3253 DISODIUM TRIOXOSILICATE, 8, III

corrosive

Marine transport IMDG

UN 3253 DISODIUM TRIOXOSILICATE, 8, III

corrosive

Air transport ICAO/IATA-DGR

UN 3253 DISODIUM TRIOXOSILICATE, 8, III

Corrosive

! 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.
37 Irritating to respiratory system.

S-phrases

1/2 Keep locked up and out of reach of children.
22 Do not breathe dust.
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).

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.

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 36/37/38 Irritating to eyes, respiratory system 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.