



Safety data-sheet (91/155 EEC)

Printed 11.12.2006

Revision 11.12.2006

elma clean 10 (EC 10)

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

Name of product	elma clean 10 (EC 10)
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 (Sprache/Language: D, GB) Phone +49 761 19240

Recommended intended purpose(s)

Aqueous alkaline universal cleaning concentrat for dental and medical laboratories.

! 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Aqueous alkaline mixture with sodium hydroxide, non-ionic surfactants, alkaliphosphates, -carbonates, -borates and corrosion inhibitors with cosolvent.

! Hazardous ingredients

CAS-No.	EC-No.	Name	[% weight]	Classification
001310-73-2	215-185-5	sodium hydroxide	< 1	C R35
61791-14-8	500-152-2	cocosfattyaminoxethylate	< 1	Xn R22; Xi R41; N R51/53
71-23-8	200-746-9	1-propanol	< 5	F R11; Xi R41; R67

3. HAZARDS IDENTIFICATION

R-phrases

34 Causes burns.

4. FIRST AID MEASURES

General information

Remove contaminated soaked clothing immediately, don't leave to dry.

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

Refer to medical treatment.
Give water to drink in small sips.
Rinse out mouth thoroughly with water.

Treatment (Advice to doctor)

Keep under medical supervision for at least 48 hours.



5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

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

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.

7. HANDLING AND STORAGE

Advice on safe handling

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

Do not keep at temperatures below 5°C.

Information on storage stability

Storage time: 5 years.

! 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, permeation time/life]: FKM, 0,4mm, >=8h.

Eye protection

tightly fitting goggles



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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
transparent

Odour
alcoholic

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	ca. 12,3	20 °C			
starts to boil	>= 100 °C				
Flash point	52 °C			DIN EN ISO 13736	Does not maintain the combustion.
Density	1,045 g/cm ³	20 °C			
Solubility in water					miscible
Solvent concentration	< 5 %				
Oxidizing properties	no				
Explosive properties	no				

10. STABILITY AND REACTIVITY

Materials to avoid

Reactions with strong acids.

Hazardous decomposition products

no

11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

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

! 12. ECOLOGICAL INFORMATION

Data on elimination (persistence and degradability)



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

Additional ecological information

	Value	Method	Remark
COD	ca. 75 mgO ₂ /g	DIN ISO 15705	
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.

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 1824 SODIUM HYDROXIDE SOLUTION, 8, III

Marine transport IMDG

UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III

Air transport ICAO/IATA-DGR

UN 1824 SODIUM HYDROXIDE SOLUTION, 8, III

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.



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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

sodium hydroxide

VOC standard

VOC content <=3 %

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 11 Highly flammable.

R 22 Harmful if swallowed.

R 35 Causes severe burns.

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 67 Vapours may cause drowsiness and dizziness.