



1. Identification of the substance/mixture and of the company/undertaking

Product identifier

Name of product elma lab clean A10 (ELC A10)

Manufacturer/distributor

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Advice

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Emergency advice

Vergiftungs-Informations-Zentrale Freiburg
(Sprache/Language: D, GB)
Phone +49 761 19240

Recommended intended purpose(s)

Aqueous alkaline foam-inhibited cleaning concentrate for hard surfaces in industry and laboratory.

2. Hazards identification

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

Xi; R38

Xi; R41

R-phrases

38 Irritating to skin.

41 Risk of serious damage to eyes.

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.

Xi Irritant



R-phrases

38 Irritating to skin.

41 Risk of serious damage to eyes.

S-phrases

2 Keep out of the reach of children.

23 Do not breathe spray.

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.

37/39 Wear suitable gloves and eye/face protection.

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



Information pertaining to special dangers for human and environment
Inhalation of spray may be harmful and may cause respiratory irritation.

3. Composition/information on ingredients

Description

Aqueous alkaline foam-inhibited mixture of amphoteric and non-ionic surfactants, complexing agents, phosphates, potassium hydroxide and dye.

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
69011-36-5		C10- fatty alcohol, ethoxylated	< 5	Xi R38-41
		isotridecanol, ethoxylated	< 10	Xn R22; Xi R41
7320-34-5	230-785-7	tetrapotassium pyrophosphate	< 5	Xi R36
1310-58-3	215-181-3	potassium-hydroxide	< 2	Xn R22; C R35

4. First aid measures

In case of inhalation

Ensure of fresh air.

In case of inhalation of mist seek medical advice.

In the event of symptoms refer for medical treatment.

In case of skin contact

In case of contact with skin wash off with 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.

If swallowed seek medical advice immediately and show the doctor packing or label.

Rinse out mouth and give plenty of water to drink.

5. Firefighting measures

Suitable extinguishing media

water

Fire-extinguishing activities according to surrounding.

Foam

Dry powder

Carbon dioxide

Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.



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.

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.

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

Keep only in unopened original container.

Further information on storage conditions

Keep locked up, out of reach of children
Protect from heat and direct solar radiation.
Do not keep at temperatures below 5 °C.
Do not keep at temperatures above 30 °C.

Information on storage stability

Storage time: 3 years.

8. Exposure controls/personal protection

Additional advice on system design

Technical exhaustion in case of longtermed exposition in sprayed aerosols.

Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m ³]	[ppm]	Remark
1310-58-3	Potassium hydroxide	8 hours Short-term	2		R22, 35

Additional advice

Hand protection

chemical-resistant gloves
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, permeation time/life]: NR, 0,5mm, >=8h.

Eye protection

tightly fitting goggles

General protective measures

Avoid contact with eyes and skin
Do not inhale gases/vapours/aerosols.

Hygiene measures

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



9. Physical and chemical properties

Form
liquid

Colour
dark green

Odour
mild

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	ca. 11,3				
boiling range	>= 100 °C				
Flash point					No flash point below 100 °C.
Density	ca. 1,08 g/cm3				
Solubility in water					miscible
Solvent concentration	0 %				
Oxidizing properties	no				
Explosive properties	no				

10. Stability and reactivity

Conditions to avoid

Evolution of heat.
Evolution of heat under influence of acids.
Corrodes aluminium.

Hazardous decomposition products

Carbon monoxide
Nitrous oxides (NO_x)
Irritant gases/vapours
Phosphorus oxides (e.g. P₂O₅)

11. Toxicological information

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	irritant			
Irritability eye	irritant - risk of strong eye injuries			

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
Physico-chemical degradability	100 %		Neutralization, pH-measurement	Alkaline properties can be eliminated up to 100% by neutralization.
Biological degradability	>= 65 %		OECD 302 B	Moderately/partially biodegradable

Additional ecological information

	Value	Method	Remark
COD	ca. 382 mgO ₂ /g	calculated	
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.
Do not allow uncontrolled leakage of product 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 ALKALI LIQUID, N.O.S. (potassium hydroxide, tetrapotassium pyrophosphate), 8, III, (E)

Marine transport IMDG

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide, tetrapotassium pyrophosphate), 8, III

Air transport ICAO/IATA-DGR

UN 1719 CAUSTIC ALKALI LIQUID, N.O.S. (potassium hydroxide, tetrapotassium pyrophosphate), 8, III



15. Regulatory information

VOC standard	
VOC content	0 %

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

- R 22 Harmful if swallowed.
- R 35 Causes severe burns.
- R 36 Irritating to eyes.
- R 38 Irritating to skin.
- R 41 Risk of serious damage to eyes.