



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

### Product identifier

**Name of product** elma lab clean A20sf (ELC A20sf)

### Manufacturer/distributor

ELMA Hans Schmidbauer GmbH & Co KG  
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### Advice

Chemie/Labor: Email: [chemlab@elma-ultrasonic.com](mailto:chemlab@elma-ultrasonic.com)  
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 cleaning concentrate without surfactants.

## 2. Hazards identification

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

#### Additional hints

The product is not classified as dangerous according to Directives 67/548/EEC or 1999/45/EC.

### Labelling according to 67/548/EEC or 1999/45/EC

#### Remarks for labelling

The product is not classified as dangerous in accordance with EC directives/German regulations on dangerous substances.

#### Special rules for supplemental label elements for certain mixtures

Safety data sheet available for professional user on request.

#### Information pertaining to special dangers for human and environment

Inhalation of spray may be harmful and may cause respiratory irritation.  
May be harmful if swallowed.

## 3. Composition/information on ingredients

### Description

Aqueous alkaline mixture of phosphates, complexing agents, carbonates and ammonia.

### Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
497-19-8	207-838-8	sodium carbonate	< 5	Xi R36
7320-34-5	230-785-7	tetrapotassium pyrophosphate	< 5	Xi R36
1336-21-6	215-647-6	ammonia ....%	< 5	C R34; N R50



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#### 4. First aid measures

##### General information

Remove contaminated soaked clothing immediately and dispose it safely.

##### In case of inhalation

Ensure of fresh air.

In the event of symptoms 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

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

Rinse out mouth and give plenty of water to drink.

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#### 5. Firefighting measures

##### Suitable extinguishing media

water

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

##### Special hazards arising from the substance or mixture

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Ammonia

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

Phosphorus oxides (e.g. phosphoruspentoxide)

##### Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.

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#### 6. Accidental release measures

##### Personal precautions

Ensure adequate ventilation.

Use personal protection.

##### 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.

Take up mechanically and send for disposal.

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#### 7. Handling and storage

##### Advice on safe handling

Use only in well-ventilated areas.

Take the usual precautions when handling with chemicals.

##### Advice on protection against fire and explosion

The product is not combustible.

No special measures necessary.

##### Requirements for storage rooms and vessels

Keep only in unopened original container.



**Advice on storage compatibility**

Store cool and at distance to alkalies.

**Further information on storage conditions**

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

**Information on storage stability**

Storage time: 5 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/m3]	[ppm]	Remark
7664-41-7	ammonia	8 hours	14	20	EU
		Short-term	36	50	
7664-41-7	Ammonia, anhydrous	WEL, 8 hours	18	25	R10-23-34-
		Short-term	25	35	50

**Respiratory protection**

Breathing apparatus in the event of high concentrations.

**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**  
brownish

**Odour**  
of ammonia

**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	11,5 - 12	20 °C			
<b>starts to boil</b>	>= 100 °C				
<b>Flash point</b>					no
<b>Density</b>	ca. 1,12 g/cm3	20 °C			
<b>Solubility in water</b>					miscible
<b>Solvent concentration</b>	0 %				



**Oxidizing properties**  
no

**Explosive properties**  
no

## 10. Stability and reactivity

**Conditions to avoid**  
Evolution of ammonia under influence of alkalis.  
Evolution of heat under influence of acids.

## 11. Toxicological information

### Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
<b>Irritability skin</b>	low irritant effect			
<b>Irritability eye</b>	low irritant			

## 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.

### Additional ecological information

	Value	Method	Remark
<b>COD</b>	ca. 161 mgO <sub>2</sub> /g	calculated	
<b>AOX</b>	The product does not contain any organically bound halogens according to the recipe.		

### General regulation

Do not allow uncontrolled leakage of product into the environment.

## 13. Disposal considerations

**Waste code No.**  
20 01 30

**Name of waste**  
detergents other than those mentioned in 20 01 29

### 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**

No dangerous goods as defined by these transport regulations

**Marine transport IMDG**

No hazardous material as defined by the prescriptions.

**Air transport ICAO/IATA-DGR**

No hazardous material as defined by the prescriptions.

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#### 15. Regulatory information

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

R 34 Causes burns.

R 36 Irritating to eyes.

R 50 Very toxic to aquatic organisms.