



Safety data-sheet (91/155 EEC)

Printed 07.03.2005

Revision 07.03.2005

elma tec clean S1

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

Name of product	elma tec clean S1
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-ultrasonic.com Internet www.elma-ultrasonic.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)

Weakly acid cleaning concentrate, also agent for pickling of stainless steel surfaces.

2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Aqueous acid mixture of anionic and nonionic tensides, salts of organic acids and citric acid, chloride-free.

Hazardous ingredients

CAS-No.	EC-No.	Name	[% weight]	Classification
005949-29-1	201-069-1	citric acid, monohydrate	ca. 20	Xi R36
25155-30-0	246-680-4	dodecylbenzenesulfonic acid, Na-salt	< 5	Xi R41

3. HAZARDS IDENTIFICATION

R-phrases

36 Irritating to eyes.

4. FIRST AID MEASURES

General information

In the event of persistent symptoms receive 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

Do not induce vomiting.
If swallowed by mistake drink plenty of water and seek medical treatment.

5. FIRE-FIGHTING MEASURES



Suitable extinguishing media

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

Foam

Dry powder

Carbon dioxide

Water spray jet

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, kieselguhr, acid binder, general-purpose binder, sawdust).

Flush away residues with water.

Take up mechanically and send for disposal.

7. HANDLING AND STORAGE

Advice on safe handling

Take the usual precautions when handling with chemicals.

Requirements for storage rooms and vessels

Keep only in original container.

Advice on storage compatibility

Do not store with alkalis.

Do not store together with food.

Further information on storage conditions

Keep locked up, out of reach of children

Keep container dry, tightly closed and store at cool place.

Protect from sun.

Do not keep at temperatures below -5°C.

Information on storage stability

Storage time: 3 years.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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

yellowish

Odour

fruity

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elma tec clean S1**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
pH value in delivery state	1,6	20 °C			
starts to boil	> 100 °C				
Flash point					No flash point below 100°C.
Flammability (gas)					no
Combustion temperature					no
Density	1,082 g/cm3	20 °C			
Solubility in water					miscible
Solvent concentration	0 %				
Oxidizing properties					no
Explosive properties					no

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

Reactions with strong alkalis.

Materials to avoid

Reactions with strong alkalis.

Hazardous decomposition products

no

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

	Value/Validation	Species	Method	Remark
Irritability skin	low irritant effect			
Irritability eye	irritant			
Sensitization skin	non-sensitising			

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
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	Elimination rate	Method of analysis	Method	Validation
Physico-chemical degradability	100 %		Neutralization, pH-measurement	Acid properties can be eliminated up to 100% by neutralization.
Biological degradability	> 95 %			readily degradable

Additional ecological information

	Value	Method	Remark
COD	162 mgO ₂ /g	calculated	
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 30

Name of waste

detergents other than those mentioned in 20 01 29

Recommendations for the product

Product is allowed to discharge into sewage treatment plants, but in accordance with official regulations. Neutralize with alkalies or lime.

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 hazardous material as defined by the prescriptions.

Marine transport IMDG

No hazardous material as defined by the prescriptions.

Air transport ICAO/IATA-DGR

No hazardous material as defined by the prescriptions.

15. REGULATORY INFORMATION

Remarks for classification

The product is classified and labelled in accordance with EC directives/German regulations on dangerous substances.

Classification

Xi Irritant

R-phrases

36 Irritating to eyes.



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S-phrases

2	Keep out of the reach of children.
24	Avoid contact with skin.
26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
62	If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

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-phrases specified in chapter 2 (not the classification of the formulation!)

R 36 Irritating to eyes.

R 41 Risk of serious damage to eyes.