



Safety data-sheet (91/155 EEC)

Printed 03.05.2006

Revision 03.05.2006

elma tec clean A2

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

Name of product	elma tec clean A2
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)

Ammoniated cleaning concentrate for laboratory and workshop as well as cleaning of jewellery.

! 2. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Aqueous concentrate from anionic and nonionic surfactants, ammonia solution, solvent and complexing agent.

! Hazardous ingredients

CAS-No.	EC-No.	Name	[% weight]	Classification
000067-63-0	200-661-7	propan-2-ol	< 10	F R11; Xi R36; R67
000107-21-1	203-473-3	ethane-1,2-diol	< 5	Xn R22
000107-98-2	203-539-1	1-methoxypropan-2-ol	< 20	R10
001336-21-6	215-647-6	ammonia, aqueous solution 25%	< 15	C R34; N R50
005064-31-3	225-768-6	trisodium nitrilotriacetate	< 5	Xn R22; Xi R36
068920-66-1		fatty alcohol-PEG-ether	5 - 15	Xn R22; Xi R41
66455-15-0		fatty alcohol C 10-14, ethoxylated	< 5	Xn R22; Xi R41; N R50
85711-69-9	288-330-3	sodium alkane sulfonate C13-C17	5 - 15	Xi R38-41

3. HAZARDS IDENTIFICATION

R-phrases

41 Risk of serious damage to eyes.

4. FIRST AID MEASURES

General information

Remove contaminated soaked clothing immediately.
Take affected person into fresh air.

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 seek medical advice immediately and show the doctor packing or label.
Rinse out mouth and give plenty of water to drink.

**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

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

In the event of fire the following can be released:

Nitrogen gases (NOx)

Ammonia

Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.

6. ACCIDENTAL RELEASE MEASURES**Personal precautions**

Ensure adequate ventilation.

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.

! 7. HANDLING AND STORAGE**Advice on safe handling**

Use only in well-ventilated areas.

Requirements for storage rooms and vessels

Keep only in original container.

Advice on storage compatibility

Store cool and at distance to acids or alkalies.

! Further information on storage conditions

Keep container tightly closed.

Keep locked up, out of reach of children

Storage temperature between 15°C to 30°C.

Do not keep at temperatures below 5°C.

Do not keep at temperatures above 35°C.

Information on storage stability

Storage time: 5 years.

! 8. EXPOSURE CONTROLS/PERSONAL PROTECTION**Ingredients with occupational exposure limits to be monitored**

CAS-No.	Name	Code	[mg/m ³]	[ml/m ³]	Remark
000067-63-0	propan-2-ol	MAK	500	200	Y



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000107-21-1	ethanediol	MAK	26	10	H,Y
000107-98-2	1-methoxy-2-propanol	MAK	370	100	Y
007664-41-7	ammonia	MAK	35	50	Y

! Hand protection

Gloves (alkali- and solvent-resistant)

Glove material specification [make/type, thickness, permeation time/life]: Butyl, 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 yellow

Odour

similar to ammonia

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	ca. 11	20 °C			
Flash point	>= 36 °C				Does not maintain the combustion.
Density	0,99 g/cm ³				
Solubility in water					miscible
Solvent concentration	22,6 %				

10. STABILITY AND REACTIVITY

Conditions to avoid

Reactions with strong alkalis.

Materials to avoid

Reactions with concentrated acids and alkalis above 50°C.

11. TOXICOLOGICAL INFORMATION

Acute toxicity/Irritability/Sensitization

	Value/Validation	Species	Method	Remark
Irritability skin	low irritant effect			
Irritability eye	irritant - risk of strong eye injuries			
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
Physico-chemical degradability	100 %		Neutralization, pH-measurement	
Biological degradability	>= 90 %		OECD 302 B	readily degradable

Additional ecological information

	Value	Method	Remark
COD	ca. 1484 mgO ₂ /g	calculated	
AOX	The product does not contain any organically bound halogens according to the recipe.		

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

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

41 Risk of serious damage to eyes.

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.

39 Wear eye/face protection.

62 If swallowed, do not induce vomiting; seek medical advice immediately and show this container or label.

7 Keep container tightly closed.

VOC standard

VOC content 22,6 %

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 10 Flammable.

R 11 Highly flammable.

R 22 Harmful if swallowed.

R 34 Causes burns.

R 36 Irritating to eyes.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

R 50 Very toxic to aquatic organisms.

R 67 Vapours may cause drowsiness and dizziness.