



Safety Data Sheet according to Regulation (EC)

No. 1907/2006 (REACH)

Printed 03.12.2009

Revision 03.12.2009

elma reinigungskonzentrat 1:9

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

Name of product	elma reinigungskonzentrat 1:9
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: Email: 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)

Cleaning concentrate for aqueous cleaning of disassembled watches and of jewellery in devices for watch and ultrasonic cleaning.

! 2. HAZARDS IDENTIFICATION

Special hazards information for humans and environment

May cause respiratory irritation.

Vapours of the concentrate may cause drowsiness and dizziness.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Chemical characterization

Aqueous mixture with surfactants, complexing agent, ammonium hydroxide with cosolvent and dyestuff.

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification
1336-21-6	215-647-6	ammonia ...%	< 5	C R34; N R50
107-98-2	203-539-1	1-methoxy-2-propanol	< 25	R10; R67
5064-31-3	225-768-6	trisodium nitrilotriacetate	< 5	Xn R22; Xi R36

4. FIRST AID MEASURES

General information

Remove contaminated soaked clothing immediately and dispose it safely.

In case of inhalation

Remove the casualty into fresh air and keep him immobile.

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.



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In case of ingestion

Seek medical advice immediately.

Rinse out mouth and give plenty of water to drink.

5. FIRE-FIGHTING MEASURES

Suitable extinguishing media

water

Alcohol-resistant foam

Carbon dioxide

Water spray jet

water mist

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 oxides (NO_x)

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.

After taking up the material dispose according to regulation.

7. HANDLING AND STORAGE

Advice on safe handling

Use only in thoroughly ventilated areas.

Take the usual precautions when handling with chemicals.

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

Keep in a cool place.

Do not keep at temperatures below 5°C.

Information on storage stability

Storage time: 3 years.

**! 8. EXPOSURE CONTROLS/PERSONAL PROTECTION****Additional advice on system design**

Technical exhaustion if there is a long-term exposition

! Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	Spitzenb.	Remark
107-98-2	1-methoxypropan-2-ol	TWA, 8 hours	375	100		Sk, R10
		Short-term	560	150		
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

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC or 2006/15/EC)

CAS No	Name	Code	[mg/m3]	[ppm]	Remark
107-98-2	1-methoxy-2-propanol	8 hours	375	100	skin
		Short-term	568	150	

Respiratory protection

Breathing apparatus in the event of high concentrations.

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**
red**Odour**
of ammonia**Important health, safety and environmental information**

	Value	Temperature	at	Method	Remark
pH value in delivery state	ca. 10,7	20 °C			
boiling range	>= 100 °C				
solidifying range	<= -5 °C				
Flash point	> 65 °C			DIN 51755	Does not maintain the combustion.
Ignition temperature				not determined	



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	Value	Temperature	at	Method	Remark
Autoignition	no				
Lower explosion limit				not determined	
Upper explosion limit				not determined	
Density	0,998 g/cm ³	20 °C			
Solubility in water					miscible
Solvent concentration	< 25 Gew-%				
Oxidizing properties	no				

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

Evolution of ammonia under influence of alkalies.

Materials to avoid

Evolution of heat under influence of acids.

Hazardous decomposition products

no

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

	Value/Validation	Species	Method	Remark
Irritability skin	low irritant effect - not necessary to label			
Irritability eye	low irritant - no labeling duty			

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	> 80 %		OECD 302 B	readily degradable



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Additional ecological information

	Value	Method	Remark
COD	ca. 974 mgO ₂ /g	DIN ISO 15705	

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.

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

! Special labelling for certain preparations

Safety data sheet available for professional user on request.

Vapours may cause drowsiness and dizziness.

VOC standard

VOC content 23 %

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.



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Wording of the R-phrases specified in chapter 3 (not the classification of the formulation!)

R 10 Flammable.

R 22 Harmful if swallowed.

R 34 Causes burns.

R 36 Irritating to eyes.

R 50 Very toxic to aquatic organisms.

R 67 Vapours may cause drowsiness and dizziness.