



Ultrasonics.Steam.Ultraclean.

Safety Data Sheet according to Regulation (EC)
No. 1907/2006 (REACH)

Printed 29.05.2018

Revision 29.05.2018 (GB) Version 4.1

ELMA RED 1:9

! SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Name of product ELMA RED 1:9

1.2. Relevant identified uses of the substance or mixture and uses advised against

Identified uses

Sector of uses [SU]

SU22 - Professional uses: Public domain (administration, education, entertainment, services, craftsmen)

SU3 - Industrial uses: Uses of substances as such or in preparations at industrial sites

! Recommended intended purpose(s)

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

This data sheet holds beginning from lot-No. 07, June 2018.

1.3. Details of the supplier of the safety data sheet

Manufacturer/distributor

Elma Schmidbauer GmbH
Gottlieb-Daimler-Str. 17, 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

1.4. Emergency telephone number

Emergency advice

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]

Hazard classes and Hazard categories Hazard Statements Classification procedure

Skin Irrit. 2	H315	Calculation method.
Eye Irrit. 2	H319	Calculation method.
STOT SE 3	H336	Calculation method.
Aquatic Chronic 3	H412	Calculation method.

Hazard Statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements



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Labelling according to Regulation (EC) No 1272/2008 [CLP/GHS]



GHS07

Signal word

Warning

Hazard Statements

H315 Causes skin irritation.
H319 Causes serious eye irritation.
H336 May cause drowsiness or dizziness.
H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P233 Keep container tightly closed.
P271 Use only outdoors or in a well-ventilated area.
P280 Wear protective gloves/eye protection.
P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P302 + P352 IF ON SKIN: Wash with plenty of water.
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P312 Call a POISON CENTER/doctor/if you feel unwell.
P332 + P313 If skin irritation occurs: Get medical advice/attention.
P337 + P313 If eye irritation persists: Get medical advice/attention.

Hazardous ingredients for labeling

1-methoxy-2-propanol, ammonia%

2.3. Other hazards

Aquatic Acute 2 H401: Toxic to aquatic life.

Information pertaining to special dangers for human and environment

May cause respiratory irritation.

Vapours of the concentrate may cause drowsiness and dizziness.

Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

SECTION 3: Composition/ information on ingredients

3.1. Substances

not applicable

3.2. Mixtures

Description

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

Hazardous ingredients



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Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
15763-76-5	239-854-6	sodium cumenesulphonate	< 5	Eye Irrit. 2, H319
164524-02-1	629-764-9	potassium cumenesulphonate	< 5	Eye Irrit. 2, H319
1336-21-6	215-647-6	ammonia%	< 5	Met. Corr. 1, H290 / Acute Tox. 4, H302 / Acute Tox. 4, H332 / Skin Corr. 1B, H314 / Eye Dam. 1, H318 / STOT SE 3, H335 / Aquatic Acute 1, H400 M=1 / Aquatic Chronic 2, H411
107-98-2	203-539-1	1-methoxy-2-propanol	15 - 25	Flam. Liq. 3, H226 / STOT SE 3, H336
68604-33-1	271-685-3	Fatty acids, C14-18 and C16-18-unsatd., ammonium salts	15 - 30	Aquatic Chronic 3, H412

REACH

CAS No	Name	REACH registration number
15763-76-5	sodium cumenesulphonate	01-2119489411-37
164524-02-1	potassium cumenesulphonate	01-2119489427-24
1336-21-6	ammonia%	01-2119488876-14
107-98-2	1-methoxy-2-propanol	01-2119457435-35
68604-33-1	Fatty acids, C14-18 and C16-18-unsatd., ammonium salts	Not yet known.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately and dispose it safely.
Take affected person into fresh air.

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.

In case of ingestion

Do not induce vomiting.
Seek medical advice immediately.
Rinse out mouth and give plenty of water to drink.

4.2. Most important symptoms and effects, both acute and delayed

Physician's information / possible symptoms

No further informations available.

4.3. Indication of any immediate medical attention and special treatment needed

Treatment (Advice to doctor)

No further informations available.



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SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

water
Alcohol-resistant foam
Carbon dioxide
Water spray jet
water mist

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Ammonia
Nitrogen oxides (NO_x)
Carbon monoxide (CO)
Sulphur dioxide (SO₂)

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

For non-emergency personnel

Ensure adequate ventilation.
Use personal protection.
High risk of slipping due to leakage/spillage of product.

For emergency responders

Ensure adequate ventilation.
Use personal protective clothing.
Use personal protection.
Forms slippery surfaces with water.
High risk of slipping due to leakage/spillage of product.

6.2. Environmental precautions

Do not discharge into the drains/surface waters/groundwater.

6.3. Methods and material for containment and 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.

6.4. Reference to other sections

Informations for safe handling see chapter 7.
Informations for personal protective equipment see chapter 8.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Advice on safe handling

Avoid formation of aerosols.
Care for thoroughly room ventilation, if necessary use in well ventilated area with local exhaust ventilation at workplace.
Use only in thoroughly ventilated areas.
Take the usual precautions when handling with chemicals.



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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.

Advice on protection against fire and explosion

No special measures necessary.

7.2. Conditions for safe storage, including any incompatibilities

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
Protect from heat and direct solar radiation.
Keep in a cool place.
Do not keep at temperatures below 5 °C.

Information on storage stability

Storage time: 3 years.

7.3. Specific end use(s)

Recommendation(s) for intended use

no further

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Ingredients with occupational exposure limits to be monitored

CAS No	Name	Code	[mg/m3]	[ppm]	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	R10-23-34-50
		Short-term	25	35	

Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2004/37/EC, 2006/15/EC or 2009/161/EU)

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

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
107-98-2	1-methoxy-2-propanol	369 mg/m3	DNEL long-term inhalative (systemic)	
1336-21-6	ammonia%	6,8 mg/kg	DNEL long-term dermal (systemic)	
		47,6 mg/m3	DNEL long-term inhalative (systemic)	



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DNEL-/PNEC-values (continued)

CAS No	Substance name	Value	Code	Remark
		14 mg/m ³	DNEL long-term inhalative (local)	

PNEC

CAS No	Substance name	Value	Code	Remark
1336-21-6	ammonia%	0,001 mg/l	PNEC aquatic, freshwater	

8.2. Exposure controls

Respiratory protection

Breathing apparatus in the event of high concentrations.
Multi-purpose filter ABEK

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

Limitation and surveillance of the environment

Avoid penetration into the subsoil/soil.
Do not discharge into surface waters.
Neutralization is necessary before a waste water is discharged into sewage treatment plants.

Appropriate engineering controls

Technical exhaustion if there is a long-term exposition

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Appearance

liquid

Colour

bright red

Odour

of ammonia

Odour threshold

1-methoxy-2-propanol: 38 - 360 mg/m³ (10 - 96 ppm).
ammonia: 5ppm (3.5mg/m³).

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value	10,6	20 °C			
boiling range	>= 100 °C				
solidifying range	<= -5 °C				
Flash point	> 65 °C			DIN 51755	Does not maintain the combustion.
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				



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	Value	Temperature	at	Method	Remark
Self ignition temperature					not spontaneously flammable
Lower explosion limit	1,5 Vol-%				Value of 1-methoxy-2-propanol.
Upper explosion limit	13,7 Vol-%				Value of 1-methoxy-2-propanol.
Vapour pressure	ca. 81 hPa	20 °C			
Relative density	1,008 g/cm ³	20 °C			
Vapour density	3,11				Value of 1-methoxy-2-propanol.
Solubility in water					miscible
Solubility/other	not determined				
Partition coefficient n-octanol/water (log P O/W)	-0,437				Value of 1-methoxy-2-propanol.
Decomposition temperature	not determined				
Viscosity	not determined				
Solvent content	< 25 Gew-%				
Vapourisation rate	1-methoxy-2-propanol: 0.75 (ASTM D3539). Water: 0.36 (ASTM D3539).				
Oxidising properties	no				
Explosive properties	no				
9.2. Other information	No further relevant informations available.				

SECTION 10: Stability and reactivity

10.1. Reactivity

Evolution of heat under influence of acids.

No further hazardous reactions known if used as directed.



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10.2. Chemical stability

No decomposition if used as directed.

10.3. Possibility of hazardous reactions

Reactions with strong oxidising agents.
Reactions with strong acids and alkalies.
Evolution of ammonia under influence of alkalies.

10.4. Conditions to avoid

Heat and direct solar radiation.

10.5. Incompatible materials

Substances to avoid

Reactions with strong acids.
Reactions with oxidising agents.
Reactions with alkalies.

10.6. Hazardous decomposition products

Ammonia

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	> 5000 mg/kg		ATE (acute toxicity estimate)	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	
LC50 acute inhalation	> 50 mg/l ()		ATE (acute toxicity estimate)	vapours
Skin irritation	irritant			
Eye irritation	irritant			
Skin sensitization	non-sensitizing			

Specific target organ toxicity (single exposure)

Narcotic effect: STOT SE 3 H336: May cause drowsiness or dizziness.
May cause respiratory irritation.

Specific target organ toxicity (repeated exposure)

The mixture is not classified as specific target organ toxicant (repeated exposure).

Aspiration hazard

The mixture is not classified as aspiration hazardous.

Toxicity test (Additional information)

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.
ammonia : LD50(oral, rat): 350 mg/kg, LC50(inhalation, rat, 1h): 11.59 mg/l .



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Experiences made from practice
Has a degreasing effect on the skin.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 5,3 mg/l		calculated	After neutralization there is a reduction in the harmfulness: LC50(Fish, calculated, after neutralization): >100mg/l.
Daphnia	EC50 54 mg/l		calculated	After neutralization there is a reduction in the harmfulness: EC50(Daphnia, calculated, after neutralization): > 100mg/l.
Algae	EC50 269 mg/l		calculated	

12.2. Persistence and degradability

Physico-chemical degradability	100 %		Neutralization, pH-measurement	
Biological degradability	> 90 %	DOC decrease	calculated	readily degradable

12.3. Bioaccumulative potential

1-methoxy-2-propanol: Accumulation in organisms is not expected.
 sodium cumenesulphonate: Bioaccumulation is improbable.
 potassium cumenesulphonate: Bioaccumulation is improbable.
 ammonia: Accumulation in organisms is not expected.
 Fatty acids, C14-18 and C16-18-unsatd., ammonium salts: Because of the n-octanol/water partition coefficient accumulation in organisms is possible (log Pow >3).

12.4. Mobility in soil

1-methoxy-2-propanol: Dissolves in water. Highly mobile in soil.
 sodium cumenesulphonate: Adsorption on soil is not expected.
 potassium cumenesulphonate: Adsorption on soil is not expected.
 ammonia ...%: The ammonium ion will be adsorbed by the soil; very soluble in water.
 Fatty acids, C14-18 and C16-18-unsatd., ammonium salts: strong adsorption on soil, immobile.

12.5. Results of PBT and vPvB assessment

The product does not contain any PBT-/vPvB-substances according to the recipe.

12.6. Other adverse effects

No further relevant informations available.

Additional ecological information

	Value	Method	Remark
COD	ca. 1,2 gO2/g	calculated	
AOX	The product does not contain any organically bound halogens according to the recipe.		



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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.

Acute aquatic environmental hazards: Aquatic Acute 2 H401: Toxic to aquatic life. After neutralization: not classified as acute hazardous to the aquatic environment.

Chronic aquatic environmental hazards: Aquatic Chronic 3 H412: Harmful to aquatic life with long lasting effects. After neutralization: not classified as chronic hazardous to the aquatic environment.

Do not allow uncontrolled leakage of product into the environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

20 01 30

Name of waste

detergents other than those mentioned in 20 01 29

Recommendations for the product

Do not dispose with household waste.

Suitable for neutralization are acetic acid or citric acid 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

SECTION 14: Transport information

	ADR/RID	IMDG	IATA-DGR
14.1. UN number	-	-	-
14.2. UN proper shipping name	-	-	-
14.3. Transport hazard class(es)	-	-	-
14.4. Packing group	-	-	-
14.5. Environmental hazards	-	-	-

14.6. Special precautions for user

no

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

not relevant

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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SECTION 15: Regulatory information

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture

Authorizations

not relevant

Application restrictions

Regulation (EC) No 1907/2006 (REACH), Annex XVII No 3 + 40 - not relevant if used as directed.

Other regulations (EU)

Regulation (EC) No 648/2004 (Detergents regulation).

Directive 2012/18/EU, Annex I: not mentioned.

VOC standard

VOC content 23 %

15.2. Chemical Safety Assessment

For this mixture a chemical safety assessment were not carried out.

SECTION 16: Other information

Recommended uses and restrictions

National and local regulations concerning chemicals shall be observed.

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.

Indication of changes: "!" = Data changed compared with the previous version. Previous version: 4.0

Sources of key data used

Own measurements.

European Chemicals Agency, <http://echa.europa.eu/>.

Informations from our suppliers.

H226	Flammable liquid and vapour.
H290	May be corrosive to metals.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.