

No. 1907/2006 (REACH)
Printed 24.09.2019

Revision 24.09.2019 (GB) Version 2.0

EC 90

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

1.1. Product identifier

Name of product EC 90

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)

Ultrasonic cleaning concentrate for jewellery and watch components to remove polishing pastes and general contamination.

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

Hazard Statements Classification procedure

categories

Skin Irrit. 2 H315 Expert judgement and weight of evidence determination.

Eye Dam. 1 H318 Calculation method.
Aquatic Chronic 3 H412 Calculation method.

Hazard Statements

H315 Causes skin irritation.

H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

2.2. Label elements

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



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Signal word

Danger

Hazard Statements

H315 Causes skin irritation. H318 Causes serious eye damage.

H412 Harmful to aquatic life with long lasting effects.

Precautionary Statements

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P301 + P312	IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.
P301 + P330 +	IF SWALLOWED: rinse mouth. Do NOT induce vomiting.
P331	
P302 + P352	IF ON SKIN: Wash with plenty of water.
P305 + P351 +	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if
P338	present and easy to do. Continue rinsing.
P310	Immediately call a doctor.
P332 + P313	If skin irritation occurs: Get medical advice/attention.

Hazardous ingredients for labeling

Alcohols, secondary C11-15, ethoxylated, Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl), C10- fatty alcohol, ethoxylated, Sulfonic acids, C14-17-sec-alkane, sodium salts

2.3. Other hazards

Acute Tox. 5 (oral) H303: May be harmful if swallowed.

Aquatic Acute 3 H402: Harmful to aquatic life.

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 neutral mixture from anionic and non-ionic surfactants, phosphates, complexing agent, corrosion inhibitors, dye and perfumes.

! Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
166736-08-9		C10- fatty alcohol, ethoxylated	< 5	Acute Tox. 4, H302 / Eye Dam. 1, H318
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
97489-15-1	307-055-2	Sulfonic acids, C14-17-sec-alkane, sodium salts	5 - 15	Acute Tox. 4, H302 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Aquatic Chronic 3, H412
68155-07-7	931-329-6	Amides, C8-18 (even numbered) and C18- unsatd., N,N-bis(hydroxyethyl)	5 - 15	Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Aquatic Chronic 2, H411
68131-40-8		Alcohols, secondary C11-15, ethoxylated	< 5	Acute Tox. 4, H302 / Acute Tox. 4, H332 / Skin Irrit. 2, H315 / Eye Dam. 1, H318



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CAS No	Name	REACH registration number
166736-08-9	C10- fatty alcohol, ethoxylated	Not relevant (polymer).
15763-76-5	sodium cumenesulphonate	01-2119489411-37
164524-02-1	potassium cumenesulphonate	01-2119489427-24
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	01-2119489924-20
68155-07-7	Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	01-2119490100-53
68131-40-8	Alcohols, secondary C11-15, ethoxylated	Not relevant (polymer).

SECTION 4: First aid measures

4.1. Description of 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 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.

Medical treatment.

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

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.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Fire-extinguishing activities according to surrounding.

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

5.2. Special hazards arising from the substance or mixture

Risk of formation of toxic pyrolyse products.

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Nitrogen oxides (NOx)

Carbon monoxide (CO)

Phosphorus oxides (e.g. phosphoruspentoxide)

Sulphur dioxide (SO2)



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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

Use personal protection.

High risk of slipping due to leakage/spillage of product.

For emergency responders

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.

Do not discharge into the subsoil/soil.

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.

Open and handle container with care!

! General protective measures

Avoid contact with eyes and skin

Do not inhale aerosols

Hygiene measures

Provide washing facilities at place of work.

Keep separated from food and feed.

Advice on protection against fire and explosion

The product is not combustible.

7.2. Conditions for safe storage, including any incompatibilities Requirements for storage rooms and vessels

Keep only in unopened original container.

! Advice on storage compatibility

Do not store with strong oxidising agents.

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.



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Do not keep at temperatures above 30 °C.

Information on storage stability

Storage time: 24 months.

7.3. Specific end use(s)

Recommendation(s) for intended use

 $\label{lem:care for thoroughly room ventilation for higher bath temperatures. \\$

see section 8.

! SECTION 8: Exposure controls/personal protection

8.1. Control parameters

DNEL-/PNEC-values

DNEL worker

CAS No	Substance name	Value	Code	Remark
68155-07-7	Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	4,16 mg/kg bw/day	DNEL long-term dermal (systemic)	
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	5 mg/kg bw/day	DNEL long-term dermal (systemic)	
PNEC				
CAS No	Substance name	Value	Code	Remark
68155-07-7	Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl)	0,007 mg/l	PNEC aquatic, freshwater	
		830 mg/l	PNEC sewage treatment plant (STP)
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	0,04 mg/l	PNEC aquatic, freshwater	
		600 mg/l	PNEC sewage treatment plant (STP)

! Additional advice

Occupational exposure limits: No relevant informations available.

8.2. Exposure controls

! Hand protection

chemical-resistant gloves

Glove material specification [make/type, thickness]: FKM, 0.4mm. Glove material specification [make/type, thickness]: NBR, 0.35mm. Glove material specification [make/type, thickness]: Butyl, 0.5mm.

Eye protection

tightly fitting goggles

Limitation and surveillance of the environment

Avoid penetration into the subsoil/soil.

Do not discharge into surface waters.

Appropriate engineering controls

Technical exhaustion for long-term expositions or higher bath temperatures.



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! SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

AppearanceColourOdourliquidblue-greenmild

Odour threshold not determined

Important health, safety and environmental information

•	Value	Temperature	at	Method	Remark
pH value	8,8	20 ℃			
boiling point	>= 100 °C				
solidifying point	not determined				
Flash point					No flash point below 100 ℃.
Flammable (solid)	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	not determined				
Self ignition temperature					not spontaneously flammable
Lower explosion limit	not relevant				
Upper explosion limit	not relevant				
Vapour pressure	ca. 23 - 24 hPa	20 ℃			
Relative density	1,08 g/cm3	20 ℃			
Vapour density	not available				
Solubility in water					miscible
Solubility/other	not determined				
Partition coefficient noctanol/water (log P O/W)	3,5 - 4,2				Value of Amides, C8- 18 (even numbered) and C18- unsatd., N,N- bis(hydroxyeth yl).
Decomposition temperature	>= 100 °C				
Viscosity	not determined				



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	Value	Temperature	at	Method	Remark
Solvent content	0 %				

! Vapourisation rate

Water: 0.36 (ASTM D3539).

Oxidising properties

nο

Explosive properties

nο

9.2. Other information

The mixture is not classified as corrosive to metals.

No further relevant informations available.

! SECTION 10: Stability and reactivity

10.1. Reactivity

No hazardous reactions known if used as directed.

10.2. Chemical stability

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

Reactions with oxidising agents.

Reaction with nitric acid

10.4. Conditions to avoid

Heat and direct solar radiation.

10.5. Incompatible materials

! Substances to avoid

Reactions with oxidising agents.

Reaction with nitric acid

Reactions with inorganic acid chlorides.

10.6. Hazardous decomposition products

No decomposition if used as directed.

!SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritation/Sensitization

	Value/Validation	Species	Method	Remark
LD50 acute oral	4270 mg/kg		ATE (acute toxicity estimate)	
LD50 acute dermal	> 5000 mg/kg		ATE (acute toxicity estimate)	



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	Value/Validation	Species	Method	Remark	
LC50 acute inhalation	> 50 mg/l ()		ATE (acute toxicity estimate)	vapours	
Skin irritation	irritant				
Eye irritation	Causes serious eye damage.				
Skin sensitization	The mixture is not classified as skin sensitiser.				

Specific target organ toxicity (single exposure)

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

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.

Experiences made from practice

Has a degreasing effect on the skin.

! SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

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Fish	LC50 11,5 mg/l		calculated	
Daphnia	EC50 12,6 mg/l		calculated	
Algae	EC50 12,5 mg/l		calculated	

12.2. Persistence and degradability

Biological >= 85 % DOC decrease calculated Biodegradable **degradability**

12.3. Bioaccumulative potential

sodium cumenesulphonate: Bioaccumulation is improbable.

potassium cumenesulphonate: Bioaccumulation is improbable.

Sulfonic acids, C14-17-sec-alkane, sodium salts: Accumulation in organisms is not expected (log Pow: 0.24).

C10- fatty alcohol, ethoxylated: Accumulation in organisms is not expected.

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl): Because of the n-octanol/water partition coefficient accumulation in organisms is possible (log Pow >3).

Alcohols, secondary C11-15, ethoxylated: Significant accumulation in organisms is not expected (log Pow: 2.72).

12.4. Mobility in soil

sodium cumenesulphonate: Adsorption on soil is not expected.

potassium cumenesulphonate: Adsorption on soil is not expected.

Sulfonic acids, C14-17-sec-alkane, sodium salts: Moderate adsorption on soil.

C10- fatty alcohol, ethoxylated: Adsorption on soil is possible.

Amides, C8-18 (even numbered) and C18-unsatd., N,N-bis(hydroxyethyl): Koc: 243, moderately mobile in soil.



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Alcohols, secondary C11-15, ethoxylated: not available.

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

/ tautional obological init	Value	Method	Remark
COD	822 mgO2/g	calculated	
AOX	The product does no	t contain any organically boo	und halogens according to the recipe.

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

Acute aquatic environmental hazards: Aquatic Acute 3 H402: Harmful to aquatic life.

Chronic aquatic environmental hazards: Aquatic Chronic 3 H412: Harmful to aquatic life with long lasting effects.

Do not allow uncontrolled leakage of product into the environment.

! SECTION 13: Disposal considerations

13.1. Waste treatment methods

! Waste code No.

Name of waste

20 01 29* detergents containing hazardous substances

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 2008/98/EC on hazardous waste.

! Recommendations for the product

Do not dispose with household waste.

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 fot 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	S -	-	-



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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.

! 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 - 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

<0,1 %

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: 1.0

Sources of key data used

Own measurements.

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

Informations from our suppliers.

Harmful if cwallowed

∏3UZ	Hammum Swanoweu.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H411	Toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.