



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

1.1. Product identifier

Name of product elma suprol pro

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

Uses advised against

Remark

Do not use for injecting or spraying.

Recommended intended purpose(s)

Ready-for-use water-free rinsing solution for the water-free watch-cleaning and ready-for-use water-displacing agent after aqueous cleaning and rinsing.

1.3. Details of the supplier of the safety data sheet

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

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 67/548/EEC or 1999/45/EC

R10

R52/53

Xn; R65

R66

R67

R-phrases

10

Flammable.

52/53

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

65

Harmful: may cause lung damage if swallowed.

66

Repeated exposure may cause skin dryness or cracking.

67

Vapours may cause drowsiness and dizziness.

2.2. Label elements



Labelling according to 1999/45/EC

Remarks for labelling

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

Xn Harmful



R-phrases

- 10 Flammable.
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
65 Harmful: may cause lung damage if swallowed.
66 Repeated exposure may cause skin dryness or cracking.
67 Vapours may cause drowsiness and dizziness.

S-phrases

- 16 Keep away from sources of ignition - No smoking.
2 Keep out of the reach of children.
23 Do not breathe vapour.
24/25 Avoid contact with skin and eyes.
61 Avoid release to the environment. Refer to special instructions/safety data sheets.
62 If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Hazardous ingredients for labeling

mixture of dearomatized hydrocarbons (<0,1% aromatics)

2.3. Other hazards

Information pertaining to special dangers for human and environment

Causes mild skin irritation.

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

Mixture of hydrocarbons, aromatics removed, with additives of alkoxy.

Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
	927-241-2	mixture of dearomatized hydrocarbons (< 0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics]	90 - 100	R10; Xn R65; R66; R67; R52/53
763-32-6	212-110-8	3-methylbut-3-en-1-ol	< 5	R10; Xi R41



Hazardous ingredients (continued)

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
	927-241-2	mixture of dearomatized hydrocarbons (< 0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics]	90 - 100	Flam. Liq. 3, H226 / Asp. Tox. 1, H304 / STOT SE 3, H336 / , EUH066 / Aquatic Chronic 3, H412
763-32-6	212-110-8	3-methylbut-3-en-1-ol	< 5	Flam. Liq. 3, H226 / Eye Dam. 1, H318

REACH

CAS No	Name	REACH registration number
	mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics]	01-2119471843-32
763-32-6	3-methylbut-3-en-1-ol	01-2119438443-41

SECTION 4: First aid measures

4.1. Description of first aid measures

General information

Remove contaminated soaked clothing immediately.
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 with soap and 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.
Call for a doctor immediately.
If swallowed seek medical advice immediately and show the doctor packing or label.

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

Physician's information / possible symptoms

Dizziness

Physician's information / possible dangers

In case of ingestion risk of pulmonary oedema and pneumonia.

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

Treatment (Advice to doctor)

Continue to monitor for pneumonia and pulmonary oedema.
If swallowed, flush stomach adding activated charcoal.
Keep under medical supervision for at least 48 hours.



SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media

Alcohol-resistant foam

Dry powder

Carbon dioxide

Water spray jet

Unsuitable extinguishing media

Full water jet

5.2. Special hazards arising from the substance or mixture

In the event of fire the following can be released:

Carbon monoxide (CO)

Flammable vapor-air-mixture are more heavy than air. Inflammation over far distance is possible.

5.3. Advice for firefighters

Special protective equipment for fire-fighters

Do not inhale explosion and/or combustion gases.

Additional information

Cool endangered containers with water spray jet.

Collect contaminated firefighting water separately, must not be discharged into the drains.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protection.

Keep away sources of ignition.

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

Send in suitable containers for recovery or disposal.

Take up with absorbent material (e.g. oil binder).

6.4. Reference to other sections

Informations for safe handling see chapter 7.

Informations for personal protective equipment see chapter 8.

Informations for disposal see chapter 13.

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!

Keep container tightly closed.

Provide good room ventilation even at ground level (vapours are heavier than air).

Use only in well-ventilated areas.

Use solvent-resistant equipment.

Keep limited supplies at workplace.

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

Keep away from sources of ignition

Vapours can form an explosive mixture with air.

Ignitable mixtures can be formed in the empty container.

Take precautionary measures against static discharges.

7.2. Conditions for safe storage, including any incompatibilities

Requirements for storage rooms and vessels

Ventilate store-rooms thoroughly.

Keep only in unopened original container.

Advice on storage compatibility

Do not store together with oxidizing agents.

Further information on storage conditions

Keep locked up, out of reach of children

Protect from heat and direct solar radiation.

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

Keep under lock and key or accessible only to specialists or people authorized by them.

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

Additional advice

Occupational exposure limits for mixtures of hydrocarbons.

8.2. Exposure controls

Respiratory protection

In case of insufficient ventilation or long-term effect use breathing apparatus.

Short term: filter apparatus, filter A

Hand protection

Gloves (solvent-resistant)

Glove material specification [make/type, thickness]: FKM, 0,4mm.

Eye protection

tightly fitting goggles

Limitation and surveillance of the environment

Avoid penetration into the subsoil/soil.

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

Additional advice on system design

Technical exhaustion if there is a long-term exposition



SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Form liquid	Colour colourless	Odour characteristic
Odour threshold not determined		

Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
pH value in delivery state	not applicable				
boiling range	> 80 - 170 °C				
solidifying point	< -20 °C				
Flash point	23 - 25 °C				
Flammable solid	not applicable				
Flammability (gas)	not applicable				
Ignition temperature	> 200 °C				
Autoignition					no
Lower explosion limit	0,6 Vol-%				
Upper explosion limit	8 Vol-%				
Vapour pressure	27 hPa	20 °C			
Relative density	0,745 - 0,77 g/cm ³	20 °C			
Vapour density	> 1				
Solubility in water					partially soluble
Partition coefficient (log p_{OW})	ca. 4,5 - 6,5				Value of hydrocarbon components.
Viscosity kinematic	0,8 - 1,1 mm ² /s	20 °C			
Solvent concentration	100 %				

Vapourisation rate

Mixture of dearomatized hydrocarbons: 0.56 (ASTM D3539).

Oxidising properties

no

Explosive properties

Not classified as explosive. Vapours can form an explosive mixture with air.



9.2. Other information

Vapours are heavier than air.

SECTION 10: Stability and reactivity

10.1. Reactivity

No further hazardous reactions known if used as directed.
Vapours can form an explosive mixture with air.

10.2. Chemical stability

Stable at ambient temperature.

10.3. Possibility of hazardous reactions

Reactions with oxidising agents.

10.4. Conditions to avoid

Heat and direct solar radiation.
Evolution of flammable mixtures possible in air when heated above flash point and/or during spraying or misting.

10.5. Incompatible materials

Materials to avoid

Reactions with oxidising agents.

10.6. Hazardous decomposition products

No decomposition if used as directed.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity/Irritability/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
Irritability skin	low irritant effect			
Irritability eye	low irritant - no labeling duty			The product was classified on the basis of the calculation procedure of the preparation directive (1999/45/EC).
Skin sensitization	non-sensitizing			

Specific target organ toxicity (single exposure)

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

Specific target organ toxicity (repeated exposure)

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



Aspiration hazard

Aspiration hazard: Asp. Tox. 1 H304: May be fatal if swallowed and enters airways.

Toxicity test (Additional information)

The mixture is not classified as mutagen / not classified as carcinogen / not classified as reproductive toxicant.
benzene: < 10 ppm.

Experiences made from practice

Has a degreasing effect on the skin.

Additional information

The product has not been tested. The information is derived from products of similar composition.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicological effects

	Value	Species	Method	Validation
Fish	LC50 10 - 31 mg/l		calculated	
Daphnia	EC50 23 - 48 mg/l		calculated	
Algae	EC50 884 mg/l		calculated	NOELR <1 mg/l.

12.2. Persistence and degradability

Biological

degradability

readily degradable

12.3. Bioaccumulative potential

Mixture of dearomatized hydrocarbons: Because of the n-octanol/water partition coefficient (log Pow) accumulation in organisms is possible.

3-methylbut-3-en-1-ol: Significant accumulation in organisms is not expected (log Pow: 0.89).

12.4. Mobility in soil

Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, <2% aromatics: The product may evaporate relatively quickly. The proportion of the distribution on the sediment layer and waste water solids is probably < 10%.

3-methylbut-3-en-1-ol: Adsorption on soil is not expected.

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
AOX			The product does not contain any organically bound halogens according to the recipe.

General regulation

Do not allow uncontrolled leakage of product into the environment.

Product is not allowed to be discharged into the ground water or aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste code No.

14 06 03*

Name of waste

other solvents and solvent mixtures

Wastes marked with an asterisk are considered to be hazardous waste pursuant to Directive 91/689/EEC on hazardous waste.



Recommendations for the product

For recycling consult manufacturer.

Do not dispose with household waste. Do not discharge into the drains.

Material recycling possible.

Incinerate in suitable incineration plant, but care for official regulations.

Recommendations for packaging

Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse.

General information

Germany: Entsorgungsweg wie für Altöl möglich (Tankstelle, kommunaler Reinigungsbetrieb)

SECTION 14: Transport information

Land and inland navigation transport ADR/RID

UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III, (D/E)

Marine transport IMDG

UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III

Air transport ICAO/IATA-DGR

UN 3295 HYDROCARBONS, LIQUID, N.O.S., 3, III

Special precautions for user

no

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

not relevant

SECTION 15: Regulatory information

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

VOC standard

VOC content 100 %

15.2. Chemical Safety Assessment

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

SECTION 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/H-phrases specified in chapter 3 (not the classification of the mixture!)

R 10 Flammable.

R 41 Risk of serious damage to eyes.

R 52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

R 65 Harmful: may cause lung damage if swallowed.

R 66 Repeated exposure may cause skin dryness or cracking.

R 67 Vapours may cause drowsiness and dizziness.

EUH066 Repeated exposure may cause skin dryness or cracking.

H226 Flammable liquid and vapour.

H304 May be fatal if swallowed and enters airways.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.