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

### Product identifier

Name of product elma suprol special

### 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.

### 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

### Emergency telephone number

### Emergency advice

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

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## ! SECTION 2: Hazards identification

### 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.

### Label elements



**Labelling according to 67/548/EEC or 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)

**Other hazards**

**! Information pertaining to special dangers for human and environment**

Causes mild skin irritation.  
PBT/vPvB: see section 12.

**! SECTION 3: Composition/ information on ingredients**

**Mixtures**

**Description**

Mixture of hydrocarbons, aromatics removed, and 1-methoxypropan-2-ol.

**! Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
107-98-2	203-539-1	1-methoxy-2-propanol	< 10	R10; R67
	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

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS]
107-98-2	203-539-1	1-methoxy-2-propanol	< 10	Flam. Liq. 3, H226 / STOT SE 3, H336



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

Printed 20.06.2012  
revision 20.06.2012 (GB) Version 3.1

**elma suprol special**

**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

**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

**Additional advice**

Rinsing agent after solvent cleaning and displacing agent for water after aqueous cleaning for drying of metallic surfaces.

**! SECTION 4: First aid measures**

**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.

**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.

**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.



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## SECTION 5: Firefighting measures

### Extinguishing media

#### Suitable extinguishing media

Alcohol-resistant foam  
Dry powder  
Carbon dioxide  
Water spray jet

#### Extinguishing media which must not be used for safety reasons

Full water jet

#### 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.

#### 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.

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## ! SECTION 6: Accidental release measures

### Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Use personal protection.

Keep away sources of ignition.

### Environmental precautions

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

Do not discharge into the subsoil/soil.

### 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).

### 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.

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## ! SECTION 7: Handling and storage

### 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.

#### ! 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.

**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.

**Specific end use(s)**

**! Recommendation(s) for intended use**

no further

**! SECTION 8: Exposure controls/personal protection**

**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	

**Indicative occupational exposure limit values (91/322/EEC, 2000/39/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	

**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

**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.

**Additional advice on system design**

Technical exhaustion if there is a long-term exposition



## ! SECTION 9: Physical and chemical properties

### Information on basic physical and chemical properties

<b>Form</b> liquid	<b>Colour</b> colourless	<b>Odour</b> characteristic
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### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value in delivery state</b>	not applicable				
<b>boiling range</b>	100 - 170 °C				
<b>solidifying point</b>	< -20 °C				
<b>Flash point</b>	23 - 25 °C				
<b>Flammable solid</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	> 200 °C				
<b>Autoignition</b>					no
<b>Lower explosion limit</b>	0,6 Vol-%				
<b>Upper explosion limit</b>	8 Vol-%				
<b>Vapour pressure</b>	10 hPa	20 °C			
<b>Density</b>	0,74 - 0,765 g/cm <sup>3</sup>	20 °C			
<b>Rel. vapour density</b>	> 1				
<b>Solubility in water</b>					partially soluble
<b>Partition coefficient (log pOW)</b>	ca. 4,5 - 6,5				Value of hydrocarbon components.
<b>Viscosity kinematic</b>	0,8 - 1,1 mm <sup>2</sup> /s	20 °C			
<b>Solvent concentration</b>	100 %				

### Oxidizing properties

no

### ! Explosive properties

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



**Other information**

Vapours are heavier than air.

**! SECTION 10: Stability and reactivity**

**Reactivity**

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

**Chemical stability**

Stable at ambient temperature.

**Possibility of hazardous reactions**

Reactions with oxidising agents.

**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.

**Incompatible materials**

**Materials to avoid**

Reactions with oxidising agents.

**Hazardous decomposition products**

No decomposition if used as directed.

**! SECTION 11: Toxicological information**

**Information on toxicological effects**

**Acute toxicity/Irritability/Sensitization**

	Value/Validation	Species	Method	Remark
<b>LD50 acute oral</b>	> 5000 mg/kg		ATE (acute toxicity estimate)	
<b>LD50 acute dermal</b>	> 5000 mg/kg			
<b>LC50 acute inhalation</b>	> 50 mg/l ()		ATE (acute toxicity estimate)	vapours
<b>Irritability skin</b>	low irritant effect			
<b>Irritability eye</b>	low irritant			
<b>Skin sensitization</b>	non-sensitizing			
<b>Sensitization respiratory system</b>	no			

**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

### Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	LC50 10 - 30 mg/l		calculated	
<b>Daphnia</b>	EC50 22 - 47 mg/l		calculated	
<b>Algae</b>	EC50 > 1000 mg/l			NOELR <1 mg/l.

#### Persistence and degradability

##### Biological

##### degradability

readily degradable

#### Bioaccumulative potential

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

1-methoxy-2-propanol: Accumulation in organisms is not expected.

#### 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%.

#### Results of PBT and vPvB assessment

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

#### Other adverse effects

No further relevant informations available.

#### Additional ecological information

	Value	Method	Remark
<b>AOX</b>			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

#### 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.

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)





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## ! 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

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## ! SECTION 15: Regulatory information

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

#### VOC standard

VOC content 100 %

#### Chemical Safety Assessment

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

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## ! 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.

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

#### 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 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.

H336 May cause drowsiness or dizziness.

H412 Harmful to aquatic life with long lasting effects.