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

### 1.1. Product identifier

Name of product elma unimix

### 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

#### Uses advised against

#### Remark

Do not use for injecting or spraying.

#### Recommended intended purpose(s)

Ready-for-use rinsing agent with reiling properties useful after the cleaning and the rinsing and before the drying step of metallic precision parts.

This data sheet holds beginning from lot-No. 01, week 30, 2014.

### 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

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## ! 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.



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

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revision 15.06.2015 (GB) Version 1.7

**elma unimix**

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

Hazard classes and Hazard categories	Hazard Statements	Classification procedure
Flam. Liq. 3	H226	On basis of test data.
Eye Irrit. 2	H319	Calculation method.
STOT SE 3	H336	Calculation method.
Asp. Tox. 1	H304	Expert judgement and weight of evidence determination.
Aquatic Chronic 3	H412	Calculation method.

**Hazard Statements**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

**2.2. Label elements**

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



GHS02



GHS07



GHS08

**! Signal word**

Danger

**Hazard Statements**

H226	Flammable liquid and vapour.
H304	May be fatal if swallowed and enters airways.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

**Precautionary Statements**

P102	Keep out of reach of children.
P210	Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P271	Use only outdoors or in a well-ventilated area.
P280	Wear eye protection.
P301 + P310	IF SWALLOWED: Immediately call a POISON CENTER/doctor/...
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.
P331	Do NOT induce vomiting.
P337 + P313	If eye irritation persists: Get medical advice/attention.
P405	Store locked up.

**! Hazardous ingredients for labeling**

mixture of dearomatized hydrocarbons (<0,1% aromatics) [Hydrocarbons, C9-C10, n-alkanes, isoalkanes, cyclics, < 2% aromatics], White mineral oil (paraffin oil)



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**Supplemental Hazard information (EU)**

Repeated exposure may cause skin dryness or cracking.

**2.3. Other hazards**

Skin Irrit. 3 H316: Causes mild skin irritation.

Aquatic Acute 3 H402: Harmful to aquatic life.

**Results of PBT and vPvB assessment**

The product contains <0.1% (1.3ppm) of a PBT-/vPvB-substance (dyestuff).

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

**3.1. Substances**

not applicable

**3.2. Mixtures**

**! Description**

Mixture of hydrocarbons, aromatics removed, and additives of alkoxy with small additions of different oils, with siliconoil and dyestuff.

**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
8042-47-5	232-455-8	White mineral oil (paraffin oil)	< 5	

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
8042-47-5	232-455-8	White mineral oil (paraffin oil)	< 5	Asp. Tox. 1, H304

**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
8042-47-5	White mineral oil (paraffin oil)	Not yet available from supplier.



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## 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.

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## 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.



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## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

#### For non-emergency personnel

Ensure adequate ventilation.

Use personal protection.

Keep away sources of ignition.

#### For emergency responders

Ensure adequate ventilation.

Remove persons to safety.

Use personal protective clothing.

Use personal protection.

Keep away sources of ignition.

Use breathing apparatus if exposed to vapours/dust/aerosol.

Pay attention to extension of gas especially at ground (heavier than air) and in direction of the wind.

### 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.

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## 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.



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**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**

See section 1.2

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**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.

**Appropriate engineering controls**

Technical exhaustion if there is a long-term exposition

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**SECTION 9: Physical and chemical properties**

**9.1. Information on basic physical and chemical properties**

**Appearance**

liquid

**Colour**

bright red

**Odour**

characteristic

**Odour threshold**

not determined



### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	not applicable				
<b>starts to boil</b>	ab 80 °C				
<b>solidifying point</b>	< -12 °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>Self ignition temperature</b>					not spontaneously flammable
<b>Lower explosion limit</b>	0,6 %				
<b>Upper explosion limit</b>	8 %				
<b>Vapour pressure</b>	27 hPa	20 °C			
<b>Relative density</b>	0,69 - 0,83 g/cm <sup>3</sup>	20 °C			
<b>Vapour density</b>	> 1				
<b>Solubility in water</b>					partially soluble
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	ca. 4,5 - 6,5				Value of hydrocarbon components.
<b>Decomposition temperature</b>	> 200 °C				
<b>Viscosity kinematic</b>	ca. 1 mm <sup>2</sup> /s	20 °C			
<b>Solvent concentration</b>	90 - 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
<b>LD50 acute oral</b>	> 5000 mg/kg		ATE (acute toxicity estimate)	
<b>LD50 acute dermal</b>	> 5000 mg/kg		ATE (acute toxicity estimate)	
<b>LC50 acute inhalation</b>	> 50 mg/l ()		ATE (acute toxicity estimate)	vapours
<b>Irritability skin</b>	low irritant effect			
<b>Irritability eye</b>	irritant			
<b>Skin sensitization</b>	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
<b>Fish</b>	LC50 11 - 32 mg/l		calculated	
<b>Daphnia</b>	EC50 23 - 49 mg/l		calculated	
<b>Algae</b>	EC50 756 mg/l		calculated	

**12.2. Persistence and degradability**

**Biological degradability**

Moderately/partially biodegradable

**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).

White mineral oil (paraffin oil): not available.

**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.

White mineral oil (paraffin oil): not available.

**12.5. Results of PBT and vPvB assessment**

The product contains <0.1% (1.3ppm) of a PBT-/vPvB-substance (dyestuff).

**12.6. 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**

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.

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 2008/98/EC 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**

	<b>ADR/RID</b>	<b>IMDG</b>	<b>IATA-DGR</b>
<b>14.1. UN number</b>	UN 3295	UN 3295	UN 3295
<b>14.2. UN proper shipping name</b>	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.	HYDROCARBONS, LIQUID, N.O.S.
<b>14.3. Transport hazard class(es)</b>	3	3	3
<b>14.4. Packing group</b>	III	III	III
<b>14.5. Environmental hazards</b>	No	No	No
<b>14.6. Special precautions for user</b>	no		
<b>14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code</b>	not relevant		
<b>Land and inland navigation transport ADR/RID</b>			
Hazard label(s)	3		
tunnel restriction code	D/E		

**! 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)**

Directive 2012/18/EU, Annex I: P5c.

**VOC standard**

**VOC content** 96,4 %

**15.2. Chemical Safety Assessment**

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



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## 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: 1.6

### 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.