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

### 1.1. Product identifier

Name of product elma opto clean

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

#### Identified uses

#### ! Sector of uses [SU]

SU21 - Consumer uses: Private households (= general public = consumers)

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

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

#### ! Product categories [PC]

PC35 - Washing and cleaning products (including solvent based products)

#### ! Process categories [PROC]

PROC8a - Transfer of substance or preparation (charging/discharging) from/to vessels/large containers at non-dedicated facilities

PROC9 - Transfer of substance or preparation into small containers (dedicated filling line, including weighing)

PROC13 - Treatment of articles by dipping and pouring

#### ! Environmental release categories [ERC]

ERC8a - Wide dispersive indoor use of processing aids in open systems

#### ! Recommended intended purpose(s)

Mildly alkaline cleaning concentrate for the aqueous ultrasonic cleaning of glasses and frames of glasses.

### 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-Informationen-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

#### Additional hints

The product is not classified as dangerous according to Directives 67/548/EEC or 1999/45/EC.



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

**! Additional hints**

The product is not classified as dangerous according to Regulation (EC) 1272/2008 [GHS].

**2.2. Label elements**

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

**! Special rules for supplemental label elements for certain mixtures**

Safety data sheet available on request.

**2.3. Other hazards**

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 mildly alkaline mixture from anionic and non-ionic surfactants, corrosion inhibitors, complexing agent, 1-methoxypropan-2-ol (solvent) and dye.

**! Hazardous ingredients**

CAS No	EC No	Name	[% weight]	Classification according to 67/548/EEC
61827-42-7		fattyalcoholethoxylate	< 5	Xn R22; Xi R41
69011-36-5		isotridecanol, ethoxylated	< 5	Xi R41
107-98-2	203-539-1	1-methoxy-2-propanol	5 - 15	R10; R67

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
61827-42-7		fattyalcoholethoxylate	< 5	Acute Tox. 4, H302 / Eye Dam. 1, H318
69011-36-5		isotridecanol, ethoxylated	< 5	Eye Dam. 1, H318
107-98-2	203-539-1	1-methoxy-2-propanol	5 - 15	Flam. Liq. 3, H226 / STOT SE 3, H336

**REACH**

CAS No	Name	REACH registration number
61827-42-7	fattyalcoholethoxylate	Not relevant (polymer).
69011-36-5	isotridecanol, ethoxylated	Not yet known.
107-98-2	1-methoxy-2-propanol	01-2119457435-35

**! Additional advice**

Ingredients according to Annex VII D of the Regulation (EC) No 648/2004 on detergents: aqua, methoxyisopropanol, triethanolamine, isotridecanol ethoxylated, tall oil acid, trisodium dicarboxymethyl alaninate, isodecanol ethoxylated, sodium citrate, benzotriazole, parfum, colorant.



## **! 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 with water.

#### **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.

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.

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## **! SECTION 5: Firefighting measures**

### **5.1. Extinguishing media**

#### **Suitable extinguishing media**

water

Alcohol-resistant foam

Dry powder

Carbon dioxide

### **5.2. Special hazards arising from the substance or mixture**

In case of fire formation of dangerous gases possible.

In the event of fire the following can be released:

Nitrogen oxides (NO<sub>x</sub>)

Carbon monoxide (CO)

### **5.3. Advice for firefighters**

#### **Special protective equipment for fire-fighters**

Do not inhale explosion and/or combustion gases.

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## **! SECTION 6: Accidental release measures**

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

Use personal protection.

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

### **6.2. Environmental precautions**

Do not discharge into surface waters/groundwater.

### **6.3. Methods and material for containment and cleaning up**

Take up with absorbent material (e.g. general-purpose binder).

Flush away residues with water.

Take up mechanically and send for disposal.

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#### 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

No special measures necessary if used correctly.

#### General protective measures

Avoid contact with eyes and skin

#### Hygiene measures

Provide washing facilities at place of work.

Keep away from food and drink.

#### 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 original container.

#### 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: 5 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	

#### 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	

### 8.2. Exposure controls

#### Eye protection

safety goggles

#### Limitation and surveillance of the environment

Avoid penetration into the subsoil/soil.

Do not discharge into surface waters.





**Explosive properties**  
no

**9.2. Other information**  
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 concentrated acids and alkalies above 50°C.

**10.4. Conditions to avoid**  
Heat and direct solar radiation.

**10.5. Incompatible materials**  
**! Materials to avoid**  
Reactions with strong acids and alkalies.

**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>	non-irritant			
<b>Irritability eye</b>	low irritant - no labeling duty			
<b>Skin sensitization</b>	non-sensitizing			

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



## ! SECTION 12: Ecological information

### 12.1. Toxicity

#### Ecotoxicological effects

	Value	Species	Method	Validation
<b>Fish</b>	LC50 40,4 mg/l		calculated	
<b>Daphnia</b>	EC50 10 - 100 mg/l		calculated	
<b>Algae</b>	EC50 10 - 100 mg/l		calculated	

### 12.2. Persistence and degradability

<b>Physico-chemical degradability</b>	100 %		Neutralization, pH-measurement	Alkaline properties can be eliminated up to 100% by neutralization.
<b>Biological degradability</b>	> 85 %	DOC decrease	calculated	readily degradable

### 12.3. Bioaccumulative potential

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

### 12.4. Mobility in soil

1-methoxy-2-propanol: Dissolves in water. Highly mobile in soil.

### 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
<b>COD</b>	ca. 490 mgO <sub>2</sub> /g	calculated	

### ! 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.

Harmful to aquatic life.

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 30	detergents other than those mentioned in 20 01 29

#### Recommendations for the product

Suitable for neutralization are acetic acid (60%, liquid) or citric acid (solid powder, crystallized) 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



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## ! SECTION 14: Transport information

### 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.

### 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

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

#### VOC standard

VOC content <15 %

### 15.2. Chemical Safety Assessment

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

1-methoxy-2-propanol: For this substance a chemical safety assessment has been 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 22 Harmful if swallowed.

R 41 Risk of serious damage to eyes.

R 67 Vapours may cause drowsiness and dizziness.

H226 Flammable liquid and vapour.

H302 Harmful if swallowed.

H318 Causes serious eye damage.

H336 May cause drowsiness or dizziness.