



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

### 1.1. Product identifier

Name of product elma clean 65 (EC 65)

### 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

#### 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

#### Uses advised against

#### Remark

Do not use for injecting or spraying.

#### Recommended intended purpose(s)

Neutral cleaning concentrate with corrosion inhibitor for laboratory and workshop.

### 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 categories	Hazard Statements	Classification procedure
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Eye Dam. 1	H318	Bridging principle ' Substantially similar mixtures.'
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#### Hazard Statements

H318	Causes serious eye damage.
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## 2.2. Label elements

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



GHS05

#### Signal word

Danger

#### Hazard Statements

H318 Causes serious eye damage.

#### Precautionary Statements

P102 Keep out of reach of children.

P280 Wear eye protection/face protection.

P301 + P312 IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.

P301 + P330 + P331 IF SWALLOWED: rinse mouth. Do NOT induce vomiting.

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P310 Immediately call a doctor.

#### Hazardous ingredients for labeling

isotridecanol, ethoxylated, Sulfonic acids, C14-17-sec-alkane, sodium salts

#### 2.3. Other hazards

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

Skin Irrit. 3 H316: Causes mild skin irritation.

Aquatic Acute 2 H401: Toxic 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 of anionic and nonionic surfactants, phosphates, corrosion inhibitor, complexing agents and cosolvent.

#### Hazardous ingredients

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
69011-36-5	931-138-8	isotridecanol, ethoxylated	< 5	Acute Tox. 4, H302 / Eye Dam. 1, H318
68920-66-1		fatty alcohol-PEG-ether	5 - 15	Acute Tox. 4, H302 / Eye Irrit. 2, H319 / Aquatic Chronic 3, H412
67-63-0	200-661-7	propan-2-ol	< 5	Flam. Liq. 2, H225 / Eye Irrit. 2, H319 / STOT SE 3, H336



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

Printed 13.05.2020

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**elma clean 65 (EC 65)**

**Hazardous ingredients (continued)**

CAS No	EC No	Name	[% weight]	Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]
97489-15-1	307-055-2	Sulfonic acids, C14-17-sec-alkane, sodium salts	5 - 10	Acute Tox. 4, H302 / Skin Irrit. 2, H315 / Eye Dam. 1, H318 / Aquatic Chronic 3, H412
102-71-6	203-049-8	triethanolamine [2,2',2''-nitrilotriethanol]	< 5	

**REACH**

CAS No	Name	REACH registration number
69011-36-5	isotridecanol, ethoxylated	Not relevant (polymer).
68920-66-1	fatty alcohol-PEG-ether	Not relevant (polymer).
67-63-0	propan-2-ol	01-2119457558-25
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	01-2119489924-20
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	01-2119486482-31

**Additional advice**

Aqueous neutral cleaning concentrate for metal, glass and synthetic materials.

**SECTION 4: First aid measures**

**4.1. Description of first aid measures**

**In case of skin contact**

In case of contact with skin wash off with 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.

Refer to 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)**

If swallowed or in the event of vomiting, risk of entering the lungs.

**SECTION 5: Firefighting measures**

**5.1. Extinguishing media**

**Suitable extinguishing media**

water

Fire-extinguishing activities according to surrounding.

Alcohol-resistant foam

Dry powder

**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)



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Phosphorus oxides (e.g. phosphoruspentoxide)  
Sulfur oxide

### 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

#### 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 surface waters/groundwater.

### 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.

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## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

#### Advice on safe handling

Open and handle container with care!

#### 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

No special measures necessary.

### 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.

Do not keep at temperatures above 35 °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/m <sup>3</sup> ]	[ppm]	Remark
67-63-0	propan-2-ol	WEL, 8 hours Short-term	999 1250	400 500	R11, 36, 67

**DNEL-/PNEC-values**

**DNEL worker**

CAS No	Substance name	Value	Code	Remark
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	7,5 mg/kg bw/day  1 mg/m <sup>3</sup>	DNEL long-term dermal (systemic)  DNEL long-term inhalative (local)	
67-63-0	propan-2-ol	888 mg/kg bw/day  500 mg/m <sup>3</sup>	DNEL long-term dermal (systemic)  DNEL long-term inhalative (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
102-71-6	triethanolamine [2,2',2''-nitrilotriethanol]	10 mg/l  0,32 mg/l	PNEC sewage treatment plant (STP)  PNEC aquatic, freshwater	
97489-15-1	Sulfonic acids, C14-17-sec-alkane, sodium salts	0,04 mg/l  600 mg/l	PNEC aquatic, freshwater  PNEC sewage treatment plant (STP)	

**! Additional advice**

Occupational exposure limits for propan-2-ol.  
Occupational exposure limits for triethanolamine.

**8.2. Exposure controls**

**Eye protection**

tightly fitting goggles

**Limitation and surveillance of the environment**

Avoid penetration into the subsoil/soil.  
Do not discharge into surface waters.



## SECTION 9: Physical and chemical properties

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

**Appearance**  
liquid

**Colour**  
yellowish

**Odour**  
mild

**Odour threshold**  
propan-2-ol: 2.5 - 490 mg/m<sup>3</sup> (1 - 196 ppm).

### Important health, safety and environmental information

	Value	Temperature	at	Method	Remark
<b>pH value</b>	ca. 7	20 °C			
<b>starts to boil</b>	> 100 °C				
<b>solidifying range</b>	< -5 °C				
<b>Flash point</b>	59 °C			DIN EN ISO 13736	Does not maintain the combustion.
<b>Flammable (solid)</b>	not applicable				
<b>Flammability (gas)</b>	not applicable				
<b>Ignition temperature</b>	not determined				
<b>Self ignition temperature</b>					not spontaneously flammable
<b>Lower explosion limit</b>	2 Vol-%				Value of propan-2-ol.
<b>Upper explosion limit</b>	ca. 12 Vol-%				Value of propan-2-ol.
<b>Vapour pressure</b>	23 - 42 hPa	20 °C			
<b>Relative density</b>	1,04 g/cm <sup>3</sup>				
<b>Vapour density</b>	2,07				Value of propan-2-ol.
<b>Solubility in water</b>					miscible
<b>Solubility/other</b>	not determined				
<b>Partition coefficient n-octanol/water (log P O/W)</b>	0,24				Value of Sulfonic acids, C14-17-sec-alkane, sodium salts.
<b>Decomposition temperature</b>	>= 100 °C				
<b>Viscosity</b>	not determined				



	Value	Temperature	at	Method	Remark
<b>Solvent content</b>	< 5 %				
<b>Vapourisation rate</b> propan-2-ol: 1.5 (ASTM D3539) / 11 (DIN 53170) . Water: 0.36 (ASTM D3539).					
<b>Oxidising properties</b> no					
<b>Explosive properties</b> no					
<b>9.2. Other information</b> 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

#### Substances to avoid

Reactions with concentrated acids and alkalies above 50°C.

### 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
<b>LD50 acute oral</b>	4410 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



	Value/Validation	Species	Method	Remark
<b>Skin irritation</b>	mediocre irritant			
<b>Eye irritation</b>	risk of strong eye injuries			
<b>Skin sensitization</b>	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

	Value	Species	Method	Validation
<b>Fish</b>	LC50 6,2 mg/l		calculated	
<b>Daphnia</b>	EC50 10,1 mg/l		calculated	
<b>Algae</b>	EC50 10,3 mg/l		calculated	

### 12.2. Persistence and degradability

<b>Biological degradability</b>	> 85 %	DOC decrease	calculated	readily degradable
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### 12.3. Bioaccumulative potential

propan-2-ol: Accumulation in organisms is not expected (log Pow: 0.05).

isotridecanol, ethoxylated: Bioaccumulation is improbable.

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

fatty alcohol-PEG-ether: not available.

triethanolamine: Accumulation in organisms is not expected (BCF: <0,4).

### 12.4. Mobility in soil

propan-2-ol: Dissolves in water. Highly mobile in soil.

isotridecanol, ethoxylated: Koc: >5000, immobile, strong adsorption on soil.

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

fatty alcohol-PEG-ether: not available.

triethanolamine: Adsorption on soil is not expected (Koc: 10).

### 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.





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**Additional ecological information**

	Value	Method	Remark
<b>COD</b>	ca. 620 mgO <sub>2</sub> /g	calculated	
<b>AOX</b>	The product does not contain any organically bound 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 on detergents.

Acute aquatic environmental hazards: Aquatic Acute 2 H401: Toxic to aquatic life.

The mixture is not classified as chronic hazardous to the aquatic environment.

Do not allow uncontrolled leakage of product into the environment.

**SECTION 13: Disposal considerations**

**13.1. Waste treatment methods**

**Waste code No.**

20 01 29\*

**Name of waste**

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 for reuse.

**Recommended cleansing agent**

Water

**SECTION 14: Transport information**

	ADR/RID	IMDG	IATA-DGR
<b>14.1. UN number</b>	-	-	-
<b>14.2. UN proper shipping name</b>	-	-	-
<b>14.3. Transport hazard class(es)</b>	-	-	-
<b>14.4. Packing group</b>	-	-	-
<b>14.5. Environmental hazards</b>	-	-	-
<b>14.6. Special precautions for user</b>	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.



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**Marine transport IMDG**

No hazardous material as defined by the prescriptions.

**Air transport ICAO/IATA-DGR**

No hazardous material as defined by the prescriptions.

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**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)**

Regulation (EC) No 648/2004 (Detergents regulation).

Directive 2012/18/EU, Annex I: not mentioned.

**VOC standard**

**VOC content** <=3 %

**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: 2.8

**Sources of key data used**

Own measurements.

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

Informations from our suppliers.

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H315	Causes skin irritation.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.