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

### Product identifier

#### Name of product

elma clean 85 (EC 85)

### 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

#### Recommended intended purpose(s)

Neutral cleaning concentrate.

### 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](mailto:info@elma-ultrasonic.com)  
Internet [www.elma-ultrasonic.com](http://www.elma-ultrasonic.com)

#### Advice

Chemie/Labor: Email: [chemlab@elma-ultrasonic.com](mailto: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

#### ! 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].



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

Printed 16.07.2012  
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**elma clean 85 (EC 85)**

**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.

**Other hazards**

Aquatic Acute 3 H402: Harmful to aquatic life.

PBT/vPvB: see chapter 12.

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

**Mixtures**

**! Hazardous ingredients**

| CAS No     | EC No     | Name   | [% weight] | Classification according to 67/548/EEC |
|------------|-----------|--|------------|--|
| 26027-37-2 |           | C18-fatty acid monoethanolamide, ethoxylated   | < 5        | C R34                                  |
| 34590-94-8 | 252-104-2 | (2-methoxymethylethoxy)-propanol   | 5 - 15     |  |
|            | 932-051-8 | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid | 5 - 15     | Xi R41-38                              |
| 68891-38-3 | 500-234-8 | Alcohols, C12-14, ethoxylated, sulfates, sodium salts  | 5 - 15     | Xi R41-38                              |

| CAS No     | EC No     | Name   | [% weight] | Classification according to Regulation (EC) No 1272/2008 [CLP/ GHS] |
|------------|-----------|--|------------|---|
| 26027-37-2 |           | C18-fatty acid monoethanolamide, ethoxylated   | < 5        | Skin Corr. 1B, H314 / Eye Dam. 1, H318                              |
| 34590-94-8 | 252-104-2 | (2-methoxymethylethoxy)-propanol   | 5 - 15     |   |
|            | 932-051-8 | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid | 5 - 15     | Skin Irrit. 2, H315 / Eye Dam. 1, H318                              |
| 68891-38-3 | 500-234-8 | Alcohols, C12-14, ethoxylated, sulfates, sodium salts  | 5 - 15     | Skin Irrit. 2, H315 / Eye Dam. 1, H318                              |

**REACH**

| CAS No     | Name   | REACH registration number |
|------------|--|---------------------------|
|            | Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid | 01-2119565112-48          |
| 68891-38-3 | Alcohols, C12-14, ethoxylated, sulfates, sodium salts  | 01-2119488639-16          |

**Description**

Aqueous concentrate from anionic and nonionic surfactants, complexing agent and solvent.

**! SECTION 4: First aid measures**

**Description of first aid measures**

**! In case of skin contact**

In case of contact with skin wash off immediately with plenty of water.



**In case of eye contact**

In case of contact with eyes rinse with plenty of water carefully. In the event of persistent symptoms seek medical treatment.

**In case of ingestion**

Do not induce vomiting.

If swallowed seek medical advice immediately and show the doctor packing or label.

Give water to drink in small sips.

**Most important symptoms and effects, both acute and delayed**

**! Physician's information / possible symptoms**

No further informations available.

**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**

**Extinguishing media**

**Suitable extinguishing media**

water

Product does not burn, fire-extinguishing activities according to surrounding.

Alcohol-resistant foam

ABC powder

Gaseous fire-extinguishing substance

Carbon dioxide

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

no

**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)

Sulphur dioxide (SO<sub>2</sub>)

**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**

**Personal precautions, protective equipment and emergency procedures**

Use personal protection.

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

**Environmental precautions**

Do not discharge into surface waters/groundwater.

**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.

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**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****Precautions for safe handling****Advice on safe handling**

Take the usual precautions when handling with chemicals.

**! Advice on protection against fire and explosion**

The product is not combustible.

**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.

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

no further

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**! SECTION 8: Exposure controls/personal protection****Control parameters****Indicative occupational exposure limit values (91/322/EEC, 2000/39/EC, 2006/15/EC or 2009/161/EU)**

| CAS No     | Name                             | Code    | [mg/m <sup>3</sup> ] | [ppm] | Remark |
|------------|----------------------------------|---------|----------------------|-------|--------|
| 34590-94-8 | (2-methoxymethylethoxy)-propanol | 8 hours | 308                  | 50    | skin   |

**Exposure controls****Eye protection**

tightly fitting goggles

**General protective measures**

Avoid contact with eyes and skin

**Hygiene measures**

Provide washing facilities at place of work.

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**! SECTION 9: Physical and chemical properties****Information on basic physical and chemical properties****Form**

liquid

**Colour**

light beige

**Odour**

mild



**Important health, safety and environmental information**

|   | Value                                       | Temperature | at | Method | Remark  |
|---|---|-------------|----|--------|---|
| <b>pH value in delivery state</b>                 | 9   | 20 °C       |    |        |   |
| <b>boiling range</b>                              | > 100 °C                                    |             |    |        |   |
| <b>solidifying range</b>                          | -5 °C                                       |             |    |        |   |
| <b>Flash point</b>                                |   |             |    |        | No flash point below 100 °C.                                    |
| <b>Flammable solid</b>                            | not applicable                              |             |    |        |   |
| <b>Flammability (gas)</b>                         | not applicable                              |             |    |        |   |
| <b>Ignition temperature</b>                       | not determined                              |             |    |        |   |
| <b>Autoignition</b>                               | no  |             |    |        |   |
| <b>Lower explosion limit</b>                      | 1,1 Vol-%                                   |             |    |        | information concern solvent                                     |
| <b>Upper explosion limit</b>                      | 14 Vol-%                                    |             |    |        | information concern solvent                                     |
| <b>Vapour pressure</b>                            | ca. 23 hPa                                  | 20 °C       |    |        |   |
| <b>Density</b>                                    | 1,07 g/cm <sup>3</sup>                      |             |    |        |   |
| <b>Rel. vapour density</b>                        | 5,12  |             |    |        | Dates refer to solvent.   |
| <b>Solubility in water</b>                        |   |             |    |        | miscible  |
| <b>Partition coefficient (log p<sub>OW</sub>)</b> | 0,3   | 23 °C       |    |        | Value of Alcohols, C12-14, ethoxylated, sulfates, sodium salts. |
| <b>Viscosity</b>                                  | not determined                              |             |    |        |   |
| <b>Solvent concentration</b>                      | 5 - 15 %                                    |             |    |        |   |
| <b>Oxidizing properties</b>                       | no  |             |    |        |   |
| <b>Explosive properties</b>                       | no  |             |    |        |   |
| <b>Other information</b>                          | No further relevant informations available. |             |    |        |   |



## ! SECTION 10: Stability and reactivity

### Reactivity

No hazardous reactions known if used as directed.

### Chemical stability

Stable at ambient temperature.

### Possibility of hazardous reactions

No hazardous reactions known.

### Conditions to avoid

Heat and direct solar radiation.

### Incompatible materials

### ! Materials to avoid

No hazardous reactions known.

### 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                    |            | calculated                    |         |
| <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                    |            | OECD 439                      |         |
| <b>Irritability eye</b>      | low irritant - no labeling duty | rabbit eye | OECD 405                      |         |
| <b>Skin sensitization</b>    | non-sensitizing                 |            |                               |         |

#### Experiences made from practice

Has a degreasing effect on the skin.

## ! SECTION 12: Ecological information

### Toxicity

#### Ecotoxicological effects

|                | Value          | Species | Method     | Validation |
|----------------|----------------|---------|------------|------------|
| <b>Fish</b>    | LC50 19,5 mg/l |         | calculated |            |
| <b>Daphnia</b> | EC50 36 mg/l   |         | calculated |            |
| <b>Algae</b>   | EC50 90 mg/l   |         | calculated |            |



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**Persistence and degradability**

**Biological degradability** > 90 % DOC decrease calculated readily degradable

**Bioaccumulative potential**

not available

**Mobility in soil**

not available

**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>COD</b> | 526 mgO <sub>2</sub> /g | DIN ISO 15705 |        |

**AOX** 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.

Harmful to aquatic life.

Do not allow uncontrolled leakage of product into the environment.

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**SECTION 13: Disposal considerations**

**Waste treatment methods**

**Waste code No.**

20 01 30

**Name of waste**

detergents other than those mentioned in 20 01 29

**Recommendations for the product**

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

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

VOC standard

VOC content 6 %

**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 34 Causes burns.

R 38 Irritating to skin.

R 41 Risk of serious damage to eyes.

H314 Causes severe skin burns and eye damage.

H315 Causes skin irritation.

H318 Causes serious eye damage.