! 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
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

! 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].
**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

<table>
<thead>
<tr>
<th>CAS No</th>
<th>EC No</th>
<th>Name</th>
<th>[% weight]</th>
<th>Classification according to 67/548/EEC</th>
<th>Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]</th>
</tr>
</thead>
<tbody>
<tr>
<td>26027-37-2</td>
<td>252-104-2</td>
<td>C18-fatty acid monoethanolamide, ethoxylated</td>
<td>&lt; 5</td>
<td>C R34</td>
<td>Skin Corr. 1B, H314 / Eye Dam. 1, H318</td>
</tr>
<tr>
<td>34590-94-8</td>
<td>932-051-8</td>
<td>(2-methoxymethylethoxy)-propanol, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid</td>
<td>5 - 15</td>
<td>Xi R41-38</td>
<td>Skin Irrit. 2, H315 / Eye Dam. 1, H318</td>
</tr>
<tr>
<td>68891-38-3</td>
<td>500-234-8</td>
<td>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</td>
<td>5 - 15</td>
<td>Xi R41-38</td>
<td></td>
</tr>
</tbody>
</table>

**REACH**

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>REACH registration number</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Reaction product of Benzenesulfonic acid, 4-C10-13-sec-alkyl derivs. and Benzenesulfonic acid, 4-methyl- and sodium hydroxid</td>
<td>01-2119565112-48</td>
</tr>
<tr>
<td>68891-38-3</td>
<td>Alcohols, C12-14, ethoxylated, sulfates, sodium salts</td>
<td>01-2119488639-16</td>
</tr>
</tbody>
</table>

**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
No further informations available.

! 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 (NOx)
Carbon monoxide (CO)
Sulphur dioxide (SO2)

Advice for firefighters

! Special protective equipment for fire-fighters
Do not inhale explosion and/or combustion gases.

! 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.
Reference to other sections
Informations for safe handling see chapter 7.
Informations for personal protective equipment see chapter 8.

! 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

! SECTION 8: Exposure controls/personal protection

Control parameters


<table>
<thead>
<tr>
<th>CAS No</th>
<th>Name</th>
<th>Code</th>
<th>[mg/m³]</th>
<th>[ppm]</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>34590-94-8</td>
<td>(2-methoxymethylethoxy)-propanol</td>
<td>8 hours</td>
<td>308</td>
<td>50</td>
<td>skin</td>
</tr>
</tbody>
</table>

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.

! SECTION 9: Physical and chemical properties

Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Form</th>
<th>Colour</th>
<th>Odour</th>
</tr>
</thead>
<tbody>
<tr>
<td>liquid</td>
<td>light beige</td>
<td>mild</td>
</tr>
</tbody>
</table>
### Important health, safety and environmental information

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
<th>Temperature</th>
<th>at</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH value in delivery state</td>
<td>9</td>
<td>20 °C</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>boiling range</td>
<td>&gt; 100 °C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>solidifying range</td>
<td>-5 °C</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flash point</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>No flash point below 100 °C.</td>
</tr>
<tr>
<td>Flammable solid</td>
<td>not applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability (gas)</td>
<td>not applicable</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>not determined</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Autoignition</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lower explosion limit</td>
<td>1,1 Vol-%</td>
<td></td>
<td></td>
<td></td>
<td>information concern solvent</td>
</tr>
<tr>
<td>Upper explosion limit</td>
<td>14 Vol-%</td>
<td></td>
<td></td>
<td></td>
<td>information concern solvent</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>ca. 23 hPa</td>
<td>20 °C</td>
<td></td>
<td></td>
<td>Dates refer to solvent.</td>
</tr>
<tr>
<td>Density</td>
<td>1,07 g/cm³</td>
<td></td>
<td></td>
<td></td>
<td>miscible</td>
</tr>
<tr>
<td>Rel. vapour density</td>
<td>5,12</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solubility in water</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>miscible</td>
</tr>
<tr>
<td>Partition coefficient (log pOW)</td>
<td>0,3</td>
<td>23 °C</td>
<td></td>
<td></td>
<td>Value of Alcohols, C12-14, ethoxylated, sulfurates, sodium salts.</td>
</tr>
<tr>
<td>Viscosity</td>
<td>not determined</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Solvent concentration</td>
<td>5 - 15 %</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Explosive properties</td>
<td>no</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Other information</td>
<td>No further relevant informations available.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
! 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

<table>
<thead>
<tr>
<th>Value/Validation</th>
<th>Species</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>LD50 acute oral</td>
<td>&gt; 5000 mg/kg</td>
<td>calculated</td>
<td></td>
</tr>
<tr>
<td>LD50 acute dermal</td>
<td>&gt; 5000 mg/kg</td>
<td>ATE (acute toxicity estimate)</td>
<td></td>
</tr>
<tr>
<td>LC50 acute inhalation</td>
<td>&gt; 50 mg/l</td>
<td>ATE (acute toxicity estimate)</td>
<td>vapours</td>
</tr>
</tbody>
</table>

Irritability skin
non-irritant OECD 439

Irritability eye
low irritant - no labeling duty rabbit eye OECD 405

Skin sensitization
non-sensitizing

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

! SECTION 12: Ecological information

Toxicity

Ecotoxicological effects

<table>
<thead>
<tr>
<th>Value</th>
<th>Species</th>
<th>Method</th>
<th>Validation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fish LC50 19.5 mg/l</td>
<td>calculated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Daphnia EC50 36 mg/l</td>
<td>calculated</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Algae EC50 90 mg/l</td>
<td>calculated</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Persistence and degradability

Biological degradability

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

<table>
<thead>
<tr>
<th>Value</th>
<th>Method</th>
<th>Remark</th>
</tr>
</thead>
<tbody>
<tr>
<td>COD</td>
<td>526 mgO2/g</td>
<td>DIN ISO 15705</td>
</tr>
<tr>
<td>AOX</td>
<td>The product does not contain any organically bound halogens according to the recipe.</td>
<td></td>
</tr>
</tbody>
</table>

! 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

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
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

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
! 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.

! 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.