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

1.1. Product identifier
   Trade name: ESD SUPER CLEAN
   Article number: 81117/81118

1.2. Relevant identified uses of the substance or mixture and uses advised against
   Identified uses: Anti-static agents

1.3. Details of the supplier of the safety data sheet
   Company: ESD-Center AB
   Ringugnsgatan 8
   21616 MALMÖ
   Sweden
   Contact person: Stefan Sjökvist
   Telephone: +46 (0)40-36 32 40
   Cell phone: +46 (0)709-57 40 85
   E-mail: stefan.sjokvist@esd-center.se

1.4. Emergency telephone number
   Acute cases: Call 112, request poison information.

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
   Upon assessment, this mixture is not classified as hazardous according to 1272/2008.

2.2. Label elements
   Hazard pictogram: Not applicable
   Signal word: Not applicable
   Hazard statement: Not applicable

2.3. Other hazards
   Not indicated.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
   Note that the table shows known hazards of the ingredients in pure form. These hazards are reduced or eliminated when mixed or diluted, see Section 16d.

<table>
<thead>
<tr>
<th>Constituent</th>
<th>Classification</th>
<th>Concentration</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>FATTY ACID ETHOXYLATE VARIANT 1</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No: 34398-01-1</td>
<td>Skin Irrit 2, Eye Irrit 2; H315, H319</td>
<td>0.5 - 0.99 %</td>
</tr>
<tr>
<td>EC No: 500-084-3</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2-ETHYL HEXANOL ETHOXYLATE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No: 26468-86-0</td>
<td>Eye Dam 1; H318</td>
<td>0.5 - 0.99 %</td>
</tr>
<tr>
<td>EC No: 607-943-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>PROPASOL SOLVENT DM</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No: 34590-94-8</td>
<td></td>
<td>3 - 6.99 %</td>
</tr>
<tr>
<td>EC No: 252-104-2</td>
<td></td>
<td></td>
</tr>
<tr>
<td>REACH: 01-2119450011-60</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>2-AMINOETHANOL</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>CAS No: 141-43-5</td>
<td>Acute Tox 4dermal, Acute Tox 4oral,</td>
<td>0.5 - 0.99 %</td>
</tr>
<tr>
<td>EC No: 205-483-3</td>
<td>Acute Tox 4vapour, Skin Corr 1B;</td>
<td></td>
</tr>
<tr>
<td>Index No: 603-030-00-8</td>
<td>H312, H302, H332, H314</td>
<td></td>
</tr>
</tbody>
</table>
Explanations to the classification and labelling of the ingredients are given in Section 16e. Official abbreviations are printed in normal font. Text in italics are specifications and/or complements used in the calculation of the classification of this mixture, see Section 16b.

SECTION 4: First aid measures

4.1. Description of first aid measures

Generally
No special measures are considered to be necessary. If symptoms do occur however, call a doctor/physician.

Upon breathing in
In case of inhaling large amounts of smoke, fog or dust, flush nose, mouth and throat with water. If symptoms occur seek medical advice.

Upon eye contact
As a precaution, rinse the eye thoroughly with water; If symptoms occur, call a doctor/physician.

Upon skin contact
Remove contaminated clothes.
Normal washing of the skin is considered sufficient; If nevertheless symptoms do occur, contact a physician.

Upon ingestion
No special measures should be necessary: to be on the safe side, induce vomiting and contact a physician.

4.2. Most important symptoms and effects, both acute and delayed

Generally
Information on specific symptoms are missing.

Upon breathing in
May cause respiratory irritation.

Upon eye contact
Irritation may occur.

Upon skin contact
Can cause dry or cracked skin during prolonged/frequently repeated contact.

Upon ingestion
Ingestion of larger quantities of product may cause discomfort or it may impact the general health condition.

4.3. Indication of any immediate medical attention and special treatment needed

Symptomatic treatment.

SECTION 5: Fire-fighting measures

5.1. Extinguishing media
Extinguish with materials intended for the surrounding fire.

5.2. Special hazards arising from the substance or mixture
The product is not hazardous in the flammable sense.
Produces fumes containing harmful gases (carbon monoxide and carbon dioxide) when burning, and, in case of incomplete combustion, aldehydes and other toxic, harmful, irritant or environmentally harmful substances.
The product does not oxidise.

5.3. Advice for fire-fighters
In case of fire use a respirator mask.
Precautions according to standard procedures for chemical fires.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
Use suitable allergy-tested protective gloves when cleaning up.
In case of spillage in protected water, call the emergency services immediately, tel. 112 (in Europe).
Do not inhale the product and avoid exposure to skin and eyes.
Dust filter IIb (P2) may be required when cleaning up.

6.2. Environmental precautions
Avoid emissions into soil, water or air.

6.3. Methods and material for containment and cleaning up
Carefully collect the material for combustion waste disposal, then wash the spillage area with water.

6.4. Reference to other sections
See section 8 and 13 for personal protection equipment and disposal considerations.

SECTION 7: Handling and storage
7.1. Precautions for safe handling
Treat the substance as potentially harmful to health.
Store this product separately from food items and keep it out of the reach of children and pets.
Handle in premises which have modern ventilation standards.
Do not eat, drink or smoke in premises where this product is handled.

7.2. Conditions for safe storage, including any incompatibilities
Store in a well-ventilated area, not above eye-level.
Store only in the original package.
Do not store above normal room temperature.

7.3. Specific end uses
Not relevant.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.1.1. National limit values
PROPASOL SOLVENT DM

United Kingdoms (EH40/2005)
Time-weighted-average exposure limit (TWA) 50 ppm / 308 mg/m³

2-AMINOETHANOL

United Kingdoms (EH40/2005)
Time-weighted-average exposure limit (TWA) 1 ppm / 2.5 mg/m³
Short term exposure limit (STEL) 3 ppm / 7.6 mg/m³

DNEL

2-AMINOETHANOL

<table>
<thead>
<tr>
<th>Type of exposure</th>
<th>Route of exposure</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Consumer</td>
<td>Chronic</td>
<td>Inhalation</td>
</tr>
<tr>
<td></td>
<td>Systemic</td>
<td></td>
</tr>
<tr>
<td>Worker</td>
<td>Chronic</td>
<td>Dermal</td>
</tr>
<tr>
<td></td>
<td>Systemic</td>
<td></td>
</tr>
<tr>
<td>Worker</td>
<td>Chronic</td>
<td>Inhalation</td>
</tr>
<tr>
<td></td>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>Worker</td>
<td>Chronic</td>
<td>Inhalation</td>
</tr>
<tr>
<td></td>
<td>Systemic</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Chronic</td>
<td>Inhalation</td>
</tr>
<tr>
<td></td>
<td>Local</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Chronic</td>
<td>Oral</td>
</tr>
<tr>
<td></td>
<td>Systemic</td>
<td></td>
</tr>
<tr>
<td>Consumer</td>
<td>Chronic</td>
<td>Dermal</td>
</tr>
<tr>
<td></td>
<td>Systemic</td>
<td></td>
</tr>
</tbody>
</table>

PNEC

2-AMINOETHANOL

<table>
<thead>
<tr>
<th>Environmental protection target</th>
<th>PNEC value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fresh water</td>
<td>0.085 mg/l</td>
</tr>
<tr>
<td>Freshwater sediments</td>
<td>0.425 mg/kg</td>
</tr>
<tr>
<td>Marine water</td>
<td>0.0085 mg/l</td>
</tr>
<tr>
<td>Marine sediments</td>
<td>0.0425 mg/kg</td>
</tr>
<tr>
<td>Microorganisms in sewage treatment</td>
<td>100 mg/l</td>
</tr>
<tr>
<td>Soil (agricultural)</td>
<td>0.035 mg/kg</td>
</tr>
</tbody>
</table>

8.2. Exposure controls
In terms of minimizing risks, no special attention is needed for this product besides the general obligations that follow EU directive 89/391 and national occupational legislation.

8.2.1. Appropriate engineering controls
Handle in premises which have modern ventilation standards.

Eye/face protection
Eye protection should be worn if there is any danger of direct exposure or splashing.

Skin protection
Protective gloves are normally not needed due to the properties of this product, but may be necessary for other reasons, e.g. mechanical risks, temperature conditions or microbiological risks.

**Respiratory protection**

Protective breathing equipment should only be required in extreme work-situations. Consult the manufacturer if this is the case. Dust filter IIIb (P2) may be required.

**8.2.3. Environmental exposure controls**

For limitation of environmental exposure, see Section 12.

---

**SECTION 9: Physical and chemical properties**

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

- **a) Appearance**
- **b) Odour**
  - Not indicated
- **c) Odour threshold**
  - Not indicated
- **d) pH**
  - 9 - 10
- **e) Melting point/freezing point**
  - Not indicated
- **f) Initial boiling point and boiling range**
  - 100 °C
- **g) Flash point**
  - Not indicated
- **h) Evaporation rate**
  - Not indicated
- **i) Flammability (solid, gas)**
  - Not applicable
- **j) Upper/lower flammability or explosive limits**
  - Not indicated
- **k) Vapour pressure**
  - Not indicated
- **l) Vapour density**
  - Not indicated
- **m) Relative density**
  - 1.000 kg/L
- **n) Solubility**
  - Solubility in water: Unlimited solubility
- **o) Partition coefficient: n-octanol/water**
  - Not applicable
- **p) Auto-ignition temperature**
  - Not indicated
- **q) Decomposition temperature**
  - Not indicated
- **r) Viscosity**
  - Not indicated
- **s) Explosive properties**
  - Not applicable
- **t) Oxidising properties**
  - Not applicable

**9.2. Other information**

No data available

---

**SECTION 10: Stability and reactivity**

**10.1. Reactivity**

The product contains no substances which can lead to hazardous reactions at normal use.

**10.2. Chemical stability**

The product is stable at normal storage and handling conditions.

**10.3. Possibility of hazardous reactions**

No hazardous reactions known.

**10.4. Conditions to avoid**

Not indicated.

**10.5. Incompatible materials**

Not indicated.

**10.6. Hazardous decomposition products**

None under normal conditions.

---

**SECTION 11: Toxicological information**

**11.1. Information on toxicological effects**

The product is not classified as toxic.

**Acute toxicity**

The product is not classified as acutely toxic, but it does contain low levels of hazardous substances.

**2-ETHYL HEXANOL ETHEROXILATE**

LD50 rat 24h: > 5000 mg/kg Orally

**PROPASOL SOLVENT DM**

LD50 rabbit 24h: > 19000 mg/kg Dermally

LD50 rat 24h: 5130 mg/kg Orally

**2-AMINOETHANOL**
LD50 rabbit 24h: 1025 mg/kg Dermally
LD50 rat 24h: 1720 mg/kg Orally

Skin corrosion/irritation
Can cause skin irritation after repeated or prolonged contact.

Serious eye damage/irritation
Eye contact may cause burning pain or irritation.

Respiratory or skin sensitisation
Hypersensitive reactions cannot be ruled out for persons who are overtly sensitive.

Germ cell mutagenicity
To the best of our knowledge, no mutagenic effects have been reported for this product.

Carcinogenicity
To the best of our knowledge, no carcinogenic effects have been reported for this product.

Reproductive toxicity
To the best of our knowledge, no mutagenic or otherwise genetic or reproductive toxic effects have been reported for this product.

STOT-single exposure
The criteria for classification cannot be considered fulfilled based on available data.

STOT-repeated exposure
The criteria for classification cannot be considered fulfilled based on available data.

Aspiration hazard
The product is not classified as being toxic for aspiration.

SECTION 12: Ecological information

12.1. Toxicity
This product consists of easily degradable naturally occuring or nature identical substances, mainly obtained from renewable sources, whereby the global environmental load may be considered to be negligible. In the local environment minor ecological effects may occur in case of large discharge.

2-ETHYL HEXANOL ETHOXYLATE
EC50 Freshwater water flea (Daphnia magna) 48 h: 20 mg/l
EC50 Algae 72 h: 3.7 mg/l
LC50 Fish 96h: 1.2 mg/l

PROPASOL SOLVENT DM
LC50 fathead minnow (Pimephales promelas) 96h: > 10000 mg/l
LC50 Freshwater water flea (Daphnia magna) 48h: 5000 mg/L.
EC50 Freshwater water flea (Daphnia magna) 48 h: > 1919 mg/l
LC50 Fish 96h: > 150 mg/L

2-AMINOETHANOL
LC50 Rainbow trout (Oncorhynchus mykiss) 96h: 150 mg/L
EC10 Bacteria 17h: 87 mg/l
LC50 Bluegill (Lepomis macrochirus) 96h: 329 mg/l
EC50 Algae 72 h: 15 mg/l
EC50 Freshwater water flea (Daphnia magna) 24h: 120 - 140 mg/L

12.2. Persistence and degradability
The product degrades in the natural environment.

12.3. Bioaccumulative potential
Neither this product, nor its contents, accumulates in nature.

12.4. Mobility in soil
No information about mobility in the nature exists but there is no reason to suppose the product to be ecologically harmful because of this.

12.5. Results of PBT and vPvB assessment
No chemical safety report has been executed.

12.6. Other adverse effects
Not indicated.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Waste handling of the product
The product is not classified as hazardous waste.
This product is not usually recycled.
For the disposal of large quantities, contact your licensed waste contractor. Small quantities may be flushed into sewer with large amounts of water. Rinse out the container thoroughly after use and dispose of as plastic.
Also take local regulations for dealing with waste into account.
See also national waste regulations.

**Classification according to 2006/12**
Recommended LoW-code: 20 01 30 Detergents other than those mentioned in 20 01 29
15 01 02 Plasticpackaging

**SECTION 14: Transport information**
Where not otherwise stated the information applies to all of the UN Model Regulations, i.e. ADR (road), RID (railway), ADN (inland waterways), IMDG (sea), and ICAO (IATA) (air).

14.1. UN number
Not classified as dangerous goods

14.2. UN proper shipping name
Not applicable

14.3. Transport hazard class(es)
Not applicable

14.4. Packing group
Not applicable

14.5. Environmental hazards
Not applicable

14.6. Special precautions for user
Not applicable

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
Not applicable

14.8 Other transport information
Not applicable

**SECTION 15: Regulatory information**

15.1. Safety, health and environmental regulations/legislation specific for the substance or mixture
Not indicated.

15.2. Chemical safety assessment
Assessment and chemical safety report in accordance with 1907/2006 Annex I has not yet been performed.

**SECTION 16: Other information**

16a. Indication of where changes have been made to the previous version of the safety data sheet
Revisions of this document
Earlier versions
2016-10-11 Changes in section(s) 4, 5, 6, 7, 8, 11, 13.

16b. Legend to abbreviations and acronyms used in the safety data sheet
Full texts for Hazard Class and Category Code mentioned in section 3

<table>
<thead>
<tr>
<th>Abbreviation</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Skin Irrit 2</td>
<td>Skin Irritant (Category 2)</td>
</tr>
<tr>
<td>Eye Irrit 2</td>
<td>Irritates eyes (Category 2)</td>
</tr>
<tr>
<td>Eye Dam 1</td>
<td>Irreversible Eye Effects (Category 1)</td>
</tr>
<tr>
<td>Acute Tox 4dermal</td>
<td>Acute toxicity (Category 4 skin)</td>
</tr>
<tr>
<td>Acute Tox 4oral</td>
<td>Acute toxicity (Category 4 oral)</td>
</tr>
<tr>
<td>Acute Tox 4vapour</td>
<td>Acute toxicity (Category 4 vapours)</td>
</tr>
<tr>
<td>Skin Corr 1B</td>
<td>Corrosive (Category 1B)</td>
</tr>
</tbody>
</table>

**Explanations of the abbreviations in Section 14**

<table>
<thead>
<tr>
<th>Acronym</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADR</td>
<td>European Agreement concerning the International Transport of Dangerous Goods by Road</td>
</tr>
<tr>
<td>RID</td>
<td>Regulations concerning the International Transport of Dangerous Goods by Rail</td>
</tr>
<tr>
<td>IMDG</td>
<td>International Maritime Dangerous Goods Code</td>
</tr>
<tr>
<td>ICAO</td>
<td>International Civil Aviation Organization (ICAO, 999 University Street, Montreal, Quebec H3C 5H7, Canada)</td>
</tr>
<tr>
<td>IATA</td>
<td>The International Air Transport Association</td>
</tr>
</tbody>
</table>

16c. Key literature references and sources for data

Sources for data
Primary data for the calculation of the hazards has preferentially been taken from the official European classification list, 1272/2008 Annex I, as updated to 2017-07-26.
Where such data was not available, alternative documentation used to establish the official classification was used, e.g. IUCLID (International Uniform Chemical Information Database). As a second alternative, information was used from reputable international chemical industries, and as a third alternative other available information was used, e.g. material safety data sheets from other suppliers or information from non-profit associations, where reliability of the source was assessed by
expert opinion. If, in spite of this, reliable information could not be sourced, the hazards were assessed by expert opinions based on the known hazards of similar substances, and according to the principles in 1907/2006 and 1272/2008.

**Full texts for Regulations mentioned in this Safety Data Sheet**


EH40/2005  EH40/2005 Workplace exposure limits

89/391  COUNCIL DIRECTIVE (89/391/EEC of 12 June 1989 on the introduction of measures to encourage improvements in the safety and health of workers at work

2006/12  DIRECTIVE 2006/12/EC OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 5 April 2006 on waste


16d. Methods of evaluating information referred to in 1272/2008 Article 9 which was used for the purpose of classification

Hazard calculation for this mixture has been performed as a cumulative assessment with the aid of expert assessments in accordance with 1272/2008 Annex I, where all available information which may be significant to establishing the hazards of the mixture was assessed together, and in accordance with 1907/2006 Annex XI.

16e. List of relevant hazard statements and/or precautionary statements

Full texts for hazard statements mentioned in section 3

H315  Causes skin irritation

H319  Causes serious eye irritation

H318  Causes serious eye damage

H312  Harmful in contact with skin

H302  Harmful if swallowed

H332  Harmful if inhaled

H314  Causes severe skin burns and eye damage

16f. Advice on any training appropriate for workers to ensure protection of human health and the environment

Warning for misuse

This product can cause injuries if not used properly. The manufacturer, the distributor or the supplier are not responsible for adverse effects if the product is not handled in accordance with its intended use.

Other relevant information

**Editorial information**

This material safety data sheet has been prepared and checked by KemRisk®, KemRisk Sweden AB, Platensgatan 8, SE-582 20 Linköping, Sweden, [www.kemrisk.se](http://www.kemrisk.se)