# SAFETY DATA SHEET
# Abena Hånddesinfektion 85%

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

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

| | |
|---|---|
| Date issued | 05.09.2012 |
| Revision date | 14.06.2015 |

### 1.1. Product identifier

| | |
|---|---|
| Product name | Abena Hånddesinfektion 85% |
| Synonyms | Abena Hand disinfection 85% |
| Article no. | 601465, 601466, 601477, 6901, 6902 |

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

| | |
|---|---|
| Product group | Disinfectant PT1 Human hygiene |
| Use of the substance/preparation | Hand disinfection 85% |

### 1.3. Details of the supplier of the safety data sheet

### Downstream user

| | |
|---|---|
| Company name | Abena A/S |
| Postal address | Egelund 35 |
| Postcode | DK-6200 |
| City | Aabenraa |
| Country | Denmark |
| Tel | +45 74 31 18 18 |
| E-mail | info@abena.com |
| Website | http://www.abena.com |

### 1.4. Emergency telephone number

| | |
|---|---|
| Emergency telephone | For poisoning emergencies, call:NHS Direct - 0845 4647 (24h/24h) |

## SECTION 2: Hazards identification

### 2.1. Classification of substance or mixture

| | |
|---|---|
| Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] | Flam. Liq. 2;H225;<br>Eye Irrit. 2;H319; |
| Substance / mixture hazardous properties | Highly flammable liquid and vapour. Causes serious eye irritation. |

### 2.2. Label elements

**Hazard Pictograms (CLP)**

| | |
|---|---|
| Signal word | Danger |
| Hazard statements | H225 Highly flammable liquid and vapour.<br>H319 Causes serious eye irritation. |
| Precautionary statements | P102 Keep out of reach of children.<br>P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.<br>P233 Keep container tightly closed.<br>P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337+P313 If eye irritation persists: Get medical advice / attention. |
| CLP - Special rules on packaging | Use: Hand disinfection<br>Type of preparation: Liquid<br>Active substances: 774 g/kg of ethanol and 40 g/kg of propan-2-ol |
| Tactile warnings | Yes |

### 2.3. Other hazards

| | |
|---|---|
| PBT / vPvB | PBT/vPvB assessment has not been performed. |

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

| Substance | Identification | Classification | Contents |
|---|---|---|---|
| Ethanol | CAS no.: 64-17-5<br>EC no.: 200-578-6<br>Index no.: 603-002-00-5<br>Registration number: 01-2119457610-43<br>Synonyms: Ethyl alcohol | Flam. Liq. 2;H225;<br>Eye Irrit. 2;H319; | 60 - 80 % |
| Propan-2-ol | CAS no.: 67-63-0<br>EC no.: 200-661-7<br>Index no.: 603-117-00-0 | Flam. Liq. 2; H225<br>Eye Irrit. 2; H319<br>STOT SE3; H336 | 1 - 5 % |
| Glycerine | CAS no.: 56-81-5<br>EC no.: 200-289-5 | | 1 - 5 % |

Substance comments The full text for all hazard statements is displayed in section 16.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

| | |
|---|---|
| General | Emergency telephone number: see section 1.4. In case of unconsciousness or severe accidents, call 112. |
| Inhalation | Fresh air and rest. Get medical attention if any discomfort continues. |
| Skin contact | The product is intended for skin contact. Remove contaminated clothing immediately. Get medical attention if any discomfort continues. |
| Eye contact | Immediately flush with plenty of water for up to 15 minutes. Remove any contact lenses and open eyes wide apart. Contact physician if irritation persists. |
| Ingestion | Immediately rinse mouth and drink plenty of water (200-300 ml). Do not induce vomiting. Contact physician if larger quantity has been consumed. |

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

| | |
|---|---|
| Acute symptoms and effects | Inhalation: May cause drowsiness or dizziness.<br>Eye contact: Irritating to eyes and may cause redness and burning.<br>Ingestion: Ingestion may cause discomfort. May cause similar symptoms to those resulting from inhalation. |

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

| | |
|---|---|
| Other Information | No specific information from the manufacturer. Treat symptomaticall |

### 5.1. Extinguishing media

| | |
|---|---|
| Suitable extinguishing media | Water spray, fog or mist. Alcohol resistant foam. Carbon dioxide or dry powder. |
| Improper extinguishing media | Do not use water jet. |

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

| | |
|---|---|
| Fire and explosion hazards | The chemical is highly flammable. Vapours may form explosive air mixtures even at room temperature. Vapours are heavier than air and may spread near ground to sources of ignition. |
| Hazardous combustion products | Carbon monoxide (CO). Carbon dioxide (CO2). |

### 5.3. Advice for firefighters

| | |
|---|---|
| Personal protective equipment | Use compressed air equipment when the chemical is involved in fire. In case of evacuation, an approved protection mask should be used. See also section 8. |
| Other Information | Containers close to fire should be removed immediately or cooled with water. Extinguishing water must not be discharged into drains. |

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

| | |
|---|---|
| Personal protection measures | Remove all ignition sources and ventilate the area. Do not breathe vapour. Use protective equipment as referred to in section 8. |

### 6.2. Environmental precautions

| | |
|---|---|
| Environmental precautionary measures | Do not allow to enter drains, sewers or watercourses. Contact local authorities in case of spillage to drain/aquatic environment. |

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

| | |
|---|---|
| Cleaning method | Absorb spillage with non-combustible, absorbent material. Collect in a suitable container and dispose as hazardous waste according to section 13. |

### 6.4. Reference to other sections

| | |
|---|---|
| Other instructions | See also sections 8 and 13. |

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

| | |
|---|---|
| Handling | Use biocides safely. Always read the label and product information before use.<br>Provide good ventilation. Avoid inhalation of vapours. |

### Protective Safety Measures

| | |
|---|---|
| Safety Measures To Prevent fire | Keep away from heat / sparks / open flames / hot surfaces. – No smoking.<br>Take precautionary measures against static discharge. |
| Advice on general occupational hygiene | Do not eat, drink or smoke during work. |

### 7.2. Conditions for safe storage, including any incompatibilities

| | |
|---|---|
| Storage | Store in accordance with regulations for flammable goods. Store in a tightly closed container in a cool, well-ventilated room, protected from direct sunlight. |
| Special risks and properties | The vapours are heavier than air and will spread along the floor. The vapours may form explosive mixtures with air. |

### Conditions for safe storage

| | |
|---|---|
| Advice on storage compatability | Keep away from: Oxidising material. Food and feed. |

### 7.3. Specific end use(s)

Specific use(s) See section 1.2.

## 8.1. Control parameters

## Occupational Exposure limit values

| Substance | Identification | Value | TWA Year |
|---|---|---|---|
| Ethanol | CAS no.: 64-17-5<br>EC no.: 200-578-6<br>Index no.: 603-002-00-5<br>Registration number: 01-2119457610-43<br>Synonyms: Ethyl alcohol | 8-hour TWA: 1000 ppm<br>8-hour TWA: 1920 mg/m³ | 2014 |
| Propan-2-ol | CAS no.: 67-63-0<br>EC no.: 200-661-7<br>Index no.: 603-117-00-0 | 8-hour TWA: 400 ppm<br>8-hour TWA: 999 mg/m3<br>15 min.: 500 ppm<br>15 min.: 1250 mg/m3 | |
| Glycerine | CAS no.: 56-81-5<br>EC no.: 200-289-5 | 8-hour TWA: 10 mg/m³ (mist) | 2007 |

Other Information about threshold limit values References (laws/regulations): EH40/2005 Workplace exposure limits, with later amendments.

## DNEL / PNEC

| Method of testing | Contents |
|---|---|
| PNEC | **Exposure route:** Freshwater<br>**Critical Component:** ethanol<br>**Value:** 0,96 mg/l |
| PNEC | **Exposure route:** Saltwater<br>**Critical Component:** ethanol<br>**Value:** 0,79 mg/l |
| PNEC | **Exposure route:** Freshwater sediments<br>**Critical Component:** ethanol<br>**Value:** 3,6 mg/kg |
| PNEC | **Exposure route:** Soil<br>**Critical Component:** ethanol<br>**Value:** 0,63 mg/kg |
| Control parameters comments | Ethanol:<br>DNEL Consumer, oral, long term (repeated) exposure: 87 mg/kg<br>DNEL Worker, inhalation, long term (repeated) exposure, systemic effect: 950 mg/m³ (500 ppm)<br>DNEL Consumer, inhalation, short term (acute) exposure, local effect: 950 g/m³<br>DNEL Consumer, dermal, long term (repeated) exposure: 206 mg/kg<br>DNEL Consumer, inhalation long term (repeated) exposure: 114 mg/m³<br>DNEL Worker, dermal, long term (repeated) exposure, systemic effect: 343 mg/kg<br>DNEL Worker, inhalation, short term (acute) exposure, local effect: 1900 g/m³ |

## 8.2. Exposure controls

Limitation of exposure on workplace Provide adequate ventilation. The personal protective equipment must be CE-marked and the latest version of the standards shall be used. The protective equipment and the specified standards recommended below are only suggestions, and should be selected on advice from the supplier of such equipment.
A risk assessment of the work place/work activities (the actual risk) may lead

| | |
|---|---|
| | to other control measures. The protection equipments suitability and durability will depend on application. |

### Respiratory protection

| | |
|---|---|
| Respiratory protection | Normally not required. In case of insufficient ventilation, wear half or full face mask with gas filter A (brown, organic vapor filter). |
| Reference to relevant standard | EN 14387 (Respiratory protective devices. Gas filter(s) and combined filter(s). Requirements, testing, marking). |

### Hand protection

| | |
|---|---|
| Hand protection | Hand protection not required. The chemical is intended for skin contact. |

### Eye / face protection

| | |
|---|---|
| Eye protection | Normally not necessary. Wear approved, tight fitting safety glasses where splashing is probable. |
| Reference to relevant standard | EN 166 (Personal eye-protection. Specifications). |

### Skin protection

| | |
|---|---|
| Skin protection (except hands) | Ordinary workwear. |

### Appropriate environmental exposure control

| | |
|---|---|
| Environmental exposure controls | Do not allow to enter into sewer, water system or soil. |

### Other Information

| | |
|---|---|
| Other Information | Eye wash facilities and emergency shower should be available when handling this chemical. |

## SECTION 9: Physical and chemical properties

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

| | |
|---|---|
| Physical state | Liquid. |
| Colour | Colourless. |
| Odour | Odour of alcohol. |
| Comments, Odour limit | Not specified by the manufacturer. |
| Comments, pH (as supplied) | Not specified by the manufacturer. |
| Comments, Melting point / melting range | Not specified by the manufacturer. |
| Boiling point / boiling range | **Value:** ~ 80 °C |
| Flash point | **Value:** < 21 °C |
| Comments, Evaporation rate | Not specified by the manufacturer. |
| Flammability (solid, gas) | Not relevant, see flash point. |
| Explosion limit | **Value:** 3,3-19 % by Vol |
| Comments, Explosion limit | Applies to ethanol. |
| Comments, Vapour pressure | Not specified by the manufacturer. |
| Vapour density | **Value:** > 1<br>**Reference gas:** air = 1 |
| Specific gravity | **Value:** ~ 0,84 |
| Comments, Specific gravity | Water = 1 |
| Solubility in water | Completely soluble in water. |
| Comments, Partition coefficient: n- octanol / water | Not specified by the manufacturer. |
| Comments, Spontaneous combustability | Not determined. |
| Explosive properties | Not classified as an explosive. |
| Oxidising properties | Not oxidising. |

### 9.2. Other information

## Other physical and chemical properties

| | |
|---|---|
| Comments | No further information is available. |

## 10.1. Reactivity

| | |
|---|---|
| Reactivity | No test data available. Vapors may form explosive mixtures with air. |

## 10.2. Chemical stability

| | |
|---|---|
| Stability | Stable under normal temperature conditions and recommended use. |

## 10.3. Possibility of hazardous reactions

| | |
|---|---|
| Possibility of hazardous reactions | Arise in contact with incompatible materials (section 10.5). |

## 10.4. Conditions to avoid

| | |
|---|---|
| Conditions to avoid | Avoid heat, flames and other sources of ignition. |

## 10.5. Incompatible materials

| | |
|---|---|
| Materials to avoid | Strong oxidising substances. |

## 10.6. Hazardous decomposition products

| | |
|---|---|
| Hazardous decomposition products | None under normal conditions. See also section 5.2. |

## 11.1. Information on toxicological effects

## Toxicological Information:

| | |
|---|---|
| Other toxicological data | Ethanol:<br>LD50 oral, rat: 6200 mg/kg (IUCLID)<br>LC50 inhalation, rat, 4h: > 124,7 mg/l (IUCLID) |

## Acute toxicity, Mixture estimate

| | |
|---|---|
| Assessment of acute toxicity classification | Based on available data, the classification criteria are not met. |

## Potential acute effects

| | |
|---|---|
| Inhalation | Vapours may cause drowsiness and dizziness. |
| Skin contact | The product is intended for skin contact. No skin irritation expected. |
| Eye contact | Irritant to eyes. |
| Ingestion | May cause discomfort if swallowed. Ingestion may cause similar symptoms to those resulting from inhalation. |
| Assessment corrosion / irritation classification | Based on available data, the classification criteria are not met. |
| Aspiration hazard | Based on available data, the classification criteria are not met. |
| Assessment eye damage or irritation, classification | Causes serious eye irritation. |

## Delayed effects / repeated exposure

Sensitisation Based on available data, the classification criteria are not met. STOT-single exposure Based on available data, the classification criteria are not met. STOT-repeated exposure Based on available data the classification criteria are not met.

Ethanol:
NOAEL 1730 mg/kg oral rat
LOAEL: 3160 mg/kg oral rat
Exposure time: 90 days

## Carcinogenic, Mutagenic or Reprotoxic

| | |
|---|---|
| Carcinogenicity | Based on available data, the classification criteria are not met. |
| Mutagenicity | Based on available data, the classification criteria are not met. Reproductive |

| | |
|---|---|
| toxicity | Based on available data, the classification criteria are not met. |

### 12.1. Toxicity

| | |
|---|---|
| Ecotoxicity | Ethanol:<br>LC50 (fish 48h): 8.140 mg/l (Leuciscus idus, IUCLID)<br>EC50 (Daphnia, 48h): 9.268 - 14.221 mg/l (Daphnia magna, IUCLID)<br>IC5 (algae, 168h): 5.000 mg/l (Scenedesmus quadricauda (grønalger), IUCLID)<br>EC5 (bacteria, 16h): 6.500 mg/l (Pseudomonas putida, IUCLID)<br><br>The chemical is not classified as harmful to the environment. |

### 12.2. Persistence and degradability

| | |
|---|---|
| Persistence and degradability | Readily biodegradable. |

### 12.3. Bioaccumulative potential

| | |
|---|---|
| Bioaccumulative potential | Not expected to bioaccumulate. |

### 12.4. Mobility in soil

| | |
|---|---|
| Mobility | Soluble in water. The product contains organic solvents which will evaporate easily from all surfaces. |

### 12.5. Results of PBT and vPvB assessment

| | |
|---|---|
| PBT assessment results | PBT assessment has not been performed. |
| vPvB evaluation results | vPvB assessment has not been performed. |

### 12.6. Other adverse effects

| | |
|---|---|
| Other adverse effects / Remarks | Do not allow to enter into sewer, water system or soil. |

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

| | |
|---|---|
| Specify the appropriate methods of disposal | Disposed of as hazardous waste by approved contractor. The waste code (EWC-Code) is intented as a guide. The code must be chosen by the user, if the use differs from the one mentioned below. Empty and cleaned packages may be disposed of or recycled as household waste. |
| Product classified as hazardous waste | Yes |
| EWC waste code | EWC: 07 07 04 other organicsolvents, washing liquids and mother liquors |

## SECTION 14: Transport information

### 14.1. UN number

| | |
|---|---|
| ADR / RID / ADN | 1987 |
| RID | 1987 |
| IMDG | 1987 |
| ICAO/IATA | 1987 |
| Comments | May be transported in limited quantities if placed in outer packaging according to ADR 3.4, when max. 1 liter/inner packaging and max 30 kg total gross mass. Shrink- or stretch wrapped trays may be used and shall not exceed 20 kg total gross mass/tray. |

### 14.2. UN proper shipping name

| | |
|---|---|
| ADR | ALCOHOLS, N.O.S. (ethanol and isopropyl alcohol solution) |
| RID | ALCOHOLS, N.O.S. (ethanol and isopropyl alcohol solution) |
| IMDG | ALCOHOLS, N.O.S. (ethanol and isopropyl alcohol solution) |
| ICAO/IATA | ALCOHOLS, N.O.S. (ethanol and isopropyl alcohol solution) |

### 14.3. Transport hazard class(es)

| | |
|---|---|
| ADR / RID / ADN | 3 |
| RID | 3 |
| IMDG | 3 |
| ICAO/IATA | 3 |

## 14.4. Packing group

| | |
|---|---|
| ADR | II |
| RID | II |
| IMDG | II |
| ICAO/IATA | II |

## 14.5. Environmental hazards

| | |
|---|---|
| IMDG Marine pollutant | No |

## 14.6. Special precautions for user

| | |
|---|---|
| IMDG Additional information | Fp < 21 °C C.c. |
| EmS | F-E, S-D |

## 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

| | |
|---|---|
| Pollution category | Not relevant. |

## ADR / RID - Other information

| | |
|---|---|
| Tunnel restriction code | (D/E) |
| Hazard no. | 33 |

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

| | |
|---|---|
| References (laws/regulations) | Regulation (EC) No 1907/2006 on the registration, evaluation, authorization and restriction of chemicals (REACH Regulation), with later amendments.<br>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments.<br>Norwegian regulations on waste. no. 930/2004, from the Ministry of Environment.<br>Dangerous Goods regulations<br>Regulation (EU) No 528/2012 of the European Parliament and of the Council of 22 May 2012 concerning the making available on the market and use of biocidal products. |

## 15.2. Chemical safety assessment

| | |
|---|---|
| Chemical safety assessment performed | No |

| | |
|---|---|
| Supplier's notes | The information contained in this SDS must be made available to all those who handle the product. |
| Classification according to Regulation (EC) No 1272/2008 [CLP/GHS] | Flam. Liq. 2; H225;<br>Eye Irrit. 2; H319; |
| List of relevant H-phrases (Section 2 and 3). | H336 May cause drowsiness or dizziness.<br>H225 Highly flammable liquid and vapour.<br>H319 Causes serious eye irritation. |
| Abbreviations and acronyms used | DNEL: Derived No Effect Level<br>EC5: The effective concentration of substance that causes 5% of the maximum response<br>EC50: The effective concentration of substance that causes 50% of the maximum response<br>IC5: The concentration of compound that results in 5% inhibition of a biological or biochemical function. |

| | |
|---|---|
| | IC50: The concentration of compound that results in 50% inhibition of a biological or biochemical function.<br>LC50: Median concentration lethal to 50% of a test population. LOAEL: Lowest observed adverse effect level.<br>NOAEL: No observed adverse effect level.<br>PBT: Persistent, Bioaccumulative and Toxic<br>PNEC: Predicted No Effect Concentration<br>vPvB: very Persistent and very Bioaccumulative |
| Important data sources used to construct the safety data sheet | Recipe from manufacturer. |
| Information which has been added, deleted or revised | Sections being revised since previous version: all (CLP, new article numbers) |
| Checking quality of information | This SDS is quality controlled by Teknologisk Institutt in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2008. |
| Version | 4 |
| Responsible for safety data sheet | Antibac AS |
| Prepared by | Teknologisk Lab AB, Göteborg / Milvi R |