SAFETY DATA SHEET
Abena Hand disinfection 85%

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

Date issued	05.09.2012

1.1. Product identifier

Product name	Abena Hand disinfection 85%
Article no.	6901, 6902

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

Product group	PT1
Use of the substance/preparation	Hand disinfection Human hygiene biocidal products

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 :National Poison Center via hospital

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to 67/548/EEC or 1999/45/EC	F; R11
Substance / mixture hazardous properties	The product is highly flammable.

2.2. Label elements

Hazard symbol

R-phrases	R11 Highly flammable.
S-phrases	S2 Keep out of the reach of children. S7 Keep container tightly closed. S16 Keep away from sources of ignition - No smoking. S51 Use only in well-ventilated areas.

2.3. Other hazards

PBT / vPvB	The chemical contains no PBT or vPvB substances.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Substance	Identification	Classification	Contents
Ethanol	CAS no.: 64-17-5 EC no.: 200-578-6 Index no.: 603-002-00-5 Synonyms: Ethanol	F; R11 Flam. Liq. 2; H225	60 - 85 %
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0 Synonyms: Propan-2-ol	F; R11 Xi; R36 R67 Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	1 - 5 %
Glycerine	CAS no.: 56-81-5 EC no.: 200-289-5		1 - 5 %

Column headings	CAS no. = Chemical Abstracts Service; EU (Einecs or Elincs number) = European inventory of Existing Commercial Chemical Substances; Ingredient name = Name as specified in the substance list (substances that are not included in the substance list must be translated, if possible). Contents given in; %, %wt/wt, %vol/wt, %vol/vol, mg/m3, ppb, ppm, weight%, vol%
HH/HF/HE	T+ = Very toxic, T = Toxic, C = Corrosive, Xn = Harmful, Xi = Irritating, E = Explosive, O = Oxidizing, F+ = Extremly flammable, F = Very flammable, N = Environmental hazard
Substance comments	See section 16 for explanation of Risk-phrases (R) and hazard statements (H) listed above.

SECTION 4: First aid measures

4.1. Description of first aid measures

General	If in doubt, seek medical advice.
Inhalation	Fresh air and rest. Get medical attention if any discomfort continues.
Skin contact	The product is intended for skin contact.
Eye contact	Immediately rinse with water for several minutes. Remove any contact lenses. Hold eyelids apart. Contact physician if discomfort continues.
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 headache, fatigue, dizziness and nausea. Skin contact: no symptoms are known. Eye contact: temporary eye irritation. Ingestion: discomfort, may cause similar symptoms to those resulting from inhalation.
Delayed symptoms and effects	Same as the acute symptoms.

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

Other Information	Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media	Dry-powder, carbon dioxide (CO_2), water mist, alcohol resistant foam.
Improper extinguishing media	Do not use water jet.

5.2. Special hazards arising from the substance or mixture

Fire and explosion hazards	Highly flammable liquid and vapour. Can form explosive gas-air mixtures. Vapours are heavier than air and may spread near ground to sources of ignition.

Hazardous combustion products	Carbon dioxide (CO2). Carbon monoxide (CO).

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.

SECTION 6: Accidental release measures

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 into sewer, water system or soil. Fire and explosion hazard. 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 suitable containers and deliver 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. Provide good ventilation. Avoid inhalation of vapours.

Protective Safety Measures

Safety Measures To Prevent fire	Smoking and naked flames and other ignition sources are prohibited. Take precautionary measures against static discharges.
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

Packaging compatibilities	Store in original container.
Advice on storage compatability	Keep away from: Oxidizing agents. Food and animal feed.

7.3. Specific end use(s)

Specific use(s)	See section 1.2.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational Exposure limit values

Substance	Identification	Value	TWA Year
Ethanol	CAS no.: 64-17-5 EC no.: 200-578-6 Index no.: 603-002-00-5	8-hour TWA: 1000 ppm 8-hour TWA: 1920 mg/m3	2011

	Synonyms: Ethanol		
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0 Synonyms: Propan-2-ol	8-hour TWA: 400 ppm 8-hour TWA: 999 mg/m3 15 min.: 500 ppm 15 min.: 1250 mg/m3	2011
Glycerine	CAS no.: 56-81-5 EC no.: 200-289-5	8-hour TWA: 10 mg/m³ (mist)	2007

8.2. Exposure controls

Occupational exposure limits: Provide adequate ventilation. An eye wash bottle must be available at the work site. Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment.

Respiratory protection

Respiratory protection: Normally not required. If there is insufficient ventilation, use a respirator with type A-filter.

Hand protection

Hand protection: Not relevant. The chemical is intended for skin contact.

Eye / face protection

Eye protection: Normally not necessary. Wear splash-proof eye goggles to prevent any possibility of eye contact.

Skin protection

Skin protection (except hands): Ordinary workwear.

Other Information

Other Information: The listed protective equipment is a recommendation. A risk assessment of the actual risk may lead to other requirements.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Clear liquid.
Colour	Colourless.
Odour	Alcohol.
Comments, Odour limit	Not determined.
Comments, pH (as supplied)	Not determined.
Melting point/melting range	Value: < 0 °C
Boiling point / boiling range	Value: ~ 80 °C
Flash point	Value: < 21 °C
Comments, Evaporation rate	Not determined.
Flammability (solid, gas)	Not determined.
Explosion limit	Value: ~ 2,5-19,0 vol-% (in air)
Comments, Vapour pressure	Not determined.
Vapour density	Value: > 1 Reference gas: air = 1
Specific gravity	Value: ~ 0,84 kg/dm³ (20 °C)
Solubility description	Soluble in water. Soluble in: Organic solvents.
Comments, Partition coefficient: n-octanol / water	Not determined.
Comments, Spontaneous combustability	Not determined.
Comments, Viscosity	Not determined.
Explosive properties	Not explosive, but vapors may form explosive mixtures with air.
Oxidising properties	Not oxidising.

9.2. Other information

Other physical and chemical properties

Comments	No further information is available.

SECTION 10: Stability and reactivity

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) and inappropriate conditions (section 10.4).

10.4. Conditions to avoid

Conditions to avoid	Avoid exposure to high temperatures or direct sunlight. Avoid heat, flames and other sources of ignition.

10.5. Incompatible materials

Materials to avoid	Flammable/combustible material. Strong oxidising substances. Aluminium.

10.6. Hazardous decomposition products

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

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Toxicological data for substances

Substance	Ethanol
LD50 oral	Value: 7.060 mg/kg Animal test species: rat
LD50 dermal	Value: > 20.000 mg/kg Animal test species: rabbit
LC50 inhalation	Value: 38 mg/l Animal test species: rat Duration: 10h

Other information regarding health hazards

General	The chemical does not meet the criteria for classification as hazardous or irritant.

Potential acute effects

Inhalation	In high concentrations, vapours are anaesthetic and may cause headache, fatigue, dizziness and central nervous system effects.
Skin contact	The product is intended for skin contact. No symptoms are known.
Eye contact	May cause temporary eye irritation.
Ingestion	May cause discomfort if swallowed. Ingestion may cause similar symptoms to those resulting from inhalation.
Aspiration hazard	Not classified with respect to aspiration toxicity. The classification criteria are not met.

Delayed effects / repeated exposure

Sensitisation	Based on available data, the classification criteria are not met.

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.

SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity	Not classified as dangerous to the environment.

Toxicological data for substances

Substance	Ethanol
Acute aquatic, fish	Value: 13,500 mg/l Method of testing: LC50 Species: Pimephales promelas Duration: 96h
Acute aquatic, algae	Value: > 10,9 mg/l Method of testing: IC50 Species: Skeletonema costatum Duration: 72h
Acute aquatic, Daphnia	Value: 5400 mg/l Method of testing: EC50 Species: Daphnia magna Duration: 48h
Persistence and degradability	Readily biodegradable.
Bioaccumulation	Log Pow: -0,32
Bioconcentration factor (BCF)	Value: 0,66
Substance	2-Propanol
Acute aquatic, fish	Value: 4200 mg/l Method of testing: LC50 Species: Rasbora heteromorpha Duration: 96h
Acute aquatic, Daphnia	Value: 13299 mg/l Method of testing: EC50 Species: Daphnia magna Duration: 48h
Ecotoxicity, other effects	PNEC (Predicted No-Effect Concentration) for aquatic organisms: 1,4 mg/l
Persistence and degradability	Readily biodegradable.
Bioaccumulation	Log Pow: 2,97

12.2. Persistence and degradability

Persistence and degradability	The components contained in the chemical are readily biodegradable.

12.3. Bioaccumulative potential

Bioaccumulative potential	Not expected to bioaccumulate.

12.4. Mobility in soil

Mobility	Soluble in water. The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.

12.5. Results of PBT and vPvB assessment

PBT assessment results	The mixture does not meet current criteria for PBT (Persistent, bioaccumulative and toxic).
vPvB evaluation results	The mixture does not meet current criteria for vPvB (very persistent and very bioaccumulative).

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	Do not empty into drains. 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.
Product classified as hazardous	Yes

waste

EWC waste code	EWC: 07 07 04* other organicsolvents, washing liquids and mother liquors

SECTION 14: Transport information

14.1. UN number

ADR	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	3
Hazard no.	33
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

ADR additional information	Tunnel restriction code (D/E)
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.

SECTION 15: Regulatory information

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

Other labelling requirements	PT 1 Human hygiene biocidal products Type of preparation: Liquid Contains: 774 g/kg ethanol and 40 g/kg of propane-2-ol Recommended dose 3 ml For professional and private use
References (laws/regulations)	CHIP Regulations. The Chemicals (Hazard Information and Packaging for Supply) Regulation. Regulation (EC) No 1272/2008 of the European Parliament and of the Council on classification, labelling and packaging of substances and mixtures, amending and repealing Directives 67/548/EEC and 1999/45/EC, and amending Regulation (EC) No 1907/2006.

Regulation (EC) No 1907/2006 (REACH) Annex II: Safety data sheets, with later amendments.
EH40/2005 Workplace exposure limits, with later amendments.
The Hazardous Waste (England and Wales) Regulations 2005 with amendments.
Dangerous Goods regulations
Highly Flammable Liquid Regulations 1972.
Directive 98/8/EC of the European Parliament and of the Council of 16 February 1998 concerning the placing of biocidal products on the market.

The Safety Data Sheet is based on information provided by the producer.

15.2. Chemical safety assessment

Chemical safety assessment performed	No
CSR required	No

SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
List of relevant R-phrases (under headings 2 and 3).	R36 Irritating to eyes. R11 Highly flammable. R67 Vapours may cause drowsiness and dizziness.
List of relevant H-phrases (Section 2 and 3).	H225 Highly flammable liquid and vapour. H336 May cause drowsiness or dizziness. H319 Causes serious eye irritation.
Abbreviations and acronyms used	EC50: The effective concentration of substance that causes 50% of the maximum response IC50: The concentration of compound that results in 50% inhibition of a biological or biochemical function. LC50: Concentration in water having 50% chance of causing death to aquatic life LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%. PBT: Persistent, Bioaccumulative and Toxic vPvB: very Persistent and very Bioaccumulative
Responsible for safety data sheet	Abena A/S