

SAFETY DATA SHEET

Abena Inventar

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

Date issued 19.09.2011

1.1. Product identifier

Product name Abena Inventar

Article no. 6942

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

Use of the substance/preparation Surface disinfection
Private area and public health area disinfectants and other biocidal products (PT2)

1.3. Details of the supplier of the safety data sheet

Distributor

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 NHS Direct (UK):0845 4647 (24h/24h)

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to F; R11

67/548/EEC or 1999/45/EC

Substance / mixture hazardous properties The product is highly flammable.

2.2. Label elements

Hazard symbol



Highly flammable

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.

Composition on the label

Ethanol, 2-Propanol

2.3. Other hazards

PBT / vPvB

The mixture does not meet current criteria for PBT (Persistent,

Health effect	bioaccumulative and toxic) or vPvB (very persistent and very bioaccumulative). May be degreasing after frequent contact. Prolonged contact may cause redness, irritation and cracking.
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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 - 100 % vol/vol
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 % vol/vol

Substance comments	In cases where the classification according to CLP is specified the following apply: The classification of the substances according to CLP has not been declared by the manufacturer. The substances are classified according to Annex VI of the CLP Regulation, (EC) No 1272/2008, current edition See section 16 for explanation of Risk-phrases (R) and hazard statements (H) listed above.
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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	Flush skin thoroughly with water. Consult a doctor if symptoms should occur.
Eye contact	Immediately rinse with water for several minutes. Make sure to remove any contact lenses from the eyes before rinsing. Hold eyelids apart. Contact physician if discomfort continues.
Ingestion	Do not induce vomiting. Drink a few glasses of water or milk. Contact physician if larger quantity has been consumed.

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

Acute symptoms and effects	Inhalation: nausea, sickness and headache. Skin contact: degreasing after frequent contact, may cause redness, irritation and cracking. Eye contact: temporary eye irritation. Ingestion: similar symptoms as by inhalation, may cause irritation of the mucous membranes, nausea, vomiting and diarrhoea. Large amounts may cause unconsciousness.
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4.3. Indication of any immediate medical attention and special treatment needed

Other Information	Treat symptomatically.
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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. Vapours are heavier than air and may spread near ground to sources of ignition. Vapours may form explosive mixture with air below
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Hazardous combustion products room temperature.
Carbon monoxide (CO). Carbon dioxide (CO₂).

5.3. Advice for firefighters

Personal protective equipment Use fresh air equipment when the product is involved in fire. 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 Ventilate well. Use protective equipment as referred to in section 8.
Do not smoke, use open fire or other sources of ignition.

6.2. Environmental precautions

Environmental precautionary measures Do not allow to enter into sewer, water system or soil - Fire and exposure 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 with inert, damp, non-combustible material, then flush area with water. 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 Provide adequate ventilation. Avoid contact with skin and eyes. Avoid inhalation of vapours. Do not smoke or use open fire or other sources of ignition. Take precautionary measures against static discharges.

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.

Packaging compatibilities Store in original container.

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	8-hour TWA: 1000 ppm	2011
	EC no.: 200-578-6	8-hour TWA: 1920 mg/m ³	
	Index no.: 603-002-00-5		
	Synonyms: Ethanol		
Propan-2-ol	CAS no.: 67-63-0	8-hour TWA: 400 ppm	2011
	EC no.: 200-661-7	8-hour TWA: 999 mg/m ³	
	Index no.: 603-117-00-0	15 min.: 500 ppm	
	Synonyms: Propan-2-ol	15 min.: 1250 mg/m ³	

8.2. Exposure controls

Occupational exposure limits All handling to take place in well-ventilated area. Explosion-proof general and local exhaust ventilation.
Personal protection equipment should be chosen according to the CEN standards and in discussion with the supplier of the personal protective equipment. The listed protective equipment is a recommendation. A risk assessment of the actual risk may lead to other requirements.
Eyewash facilities should be available at the workplace.
Do not eat, drink or smoke during work. Wash contaminated clothing before reuse.

Respiratory protection

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

Hand protection

Hand protection Use gloves from resistant material, eg.: Butyl or viton. The most suitable glove must be chosen in consultation with the gloves supplier, who can inform about the breakthrough time of the glove material.

Eye / face protection

Eye protection Use safety goggles or face shield in case of splash risk.

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.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Liquid.
Colour	Colourless.
Odour	Characteristic.
Melting point/melting range	Value: < -20 °C
Boiling point / boiling range	Value: > 78 °C
Flash point	Value: < 21 °C
Vapour density	Value: > 1 Reference gas: air = 1
Specific gravity	Value: 0,85 kg/l
Solubility description	Soluble in: Organic solvents.
Solubility in water	Easily soluble.

Physical hazards

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. Vapours may form explosive mixture with air below room temperature.

10.2. Chemical stability

Stability Stable under normal temperature conditions and recommended use.

10.3. Possibility of hazardous reactions

Possibility of hazardous reactions No hazardous reactions known.

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.

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

Potential acute effects

Inhalation	Solvent vapours are hazardous and may cause nausea, sickness and headaches.
Skin contact	May be degreasing after frequent contact. Prolonged contact may cause redness, irritation and cracking.
Eye contact	May cause temporary eye irritation.
Ingestion	May give the same symptoms as by inhalation. May cause irritation of the mucous membranes, nausea, vomiting and diarrhoea. Ingestion of large amounts may cause unconsciousness.
Aspiration hazard	Based on available data, the classification criteria are not met.

Delayed effects / repeated exposure

Sensitisation	Based on available data, the classification criteria are not met.
Chronic effects	Repeated inhalation of vapours from organic solvents for longer time may cause permanent brain damage.

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.
Teratogenic properties	Based on available data, the classification criteria are not met.
Reproductive toxicity	Based on available data, the classification criteria are not met.

Symptoms of Exposure

Other Information	The product does not meet the criteria for classification as hazardous or irritant.
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SECTION 12: Ecological information

12.1. Toxicity

Ecotoxicity Not regarded as dangerous for 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

Acute aquatic, Daphnia	Duration: 72h 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	Readily biodegradable.
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12.3. Bioaccumulative potential

Bioaccumulative potential	Not expected to bioaccumulate.
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12.4. Mobility in soil

Mobility	The product contains volatile organic compounds (VOC) which will evaporate easily from all surfaces.
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12.5. Results of PBT and vPvB assessment

PBT assessment results	The chemical contains no PBT-substances.
vPvB evaluation results	The chemical contains no vPvB substances.

12.6. Other adverse effects

Other adverse effects / Remarks	Do not allow to enter into sewer, water system or soil.
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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 intended as a guide. The code must be chosen by the user, if the use differs from the one mentioned above.
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	1987
RID	1987
IMDG	1987
ICAO/IATA	1987

14.2. UN proper shipping name

ADR	ALCOHOLS N.O.S. (ethanol, isopropanol)
RID	ALCOHOLS N.O.S. (ethanol, isopropanol)
IMDG	ALCOHOLS N.O.S. (ethanol, isopropanol)

ICAO/IATA ALCOHOLS N.O.S. (ethanol, isopropanol)

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

References (laws/regulations) 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. CHIP Regulations. The Chemicals (Hazard Information and Packaging for Supply) Regulation. Regulation (EC) No 1907/2006 (REACH) Annex II: Safety data sheets. Occupational Exposure Limits. EH40/2010. The Hazardous Waste (England and Wales) Regulations 2005 with amendments. Dangerous Goods regulations

15.2. Chemical safety assessment

Chemical safety assessment No
 performed
 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). R11 Highly flammable. R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness.

List of relevant H-phrases (Section 2 and 3). H225 Highly flammable liquid and vapour. H319 Causes Serious eye irritation. H336 May cause drowsiness or dizziness.

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