

SAFETY DATA SHEET

DAX Alcogel 85

SDS according to Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex II-EU

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

Date issued 20.02.2012

Revision date 26.10.2015

1.1. Product identifier

Product name DAX Alcogel 85

Article no. 701-24, 702-24, 709-15, 715-8, DP465

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

1.3. Details of the supplier of the safety data sheet

Manufacturer

Company name CCS Healthcare AB

Postal address Box 100 54

Postcode SE-781 10

City Borlänge

Country Sweden

Tel +46 (0)243 78100

E-mail info.malmo@ccshc.com

Website <http://www.ccshc.com>

1.4. Emergency telephone number

Emergency telephone Only emergency call number: 112 or 999

SECTION 2: Hazards identification

2.1. Classification of substance or mixture

Classification according to Flam. Liq. 2; H225;

Regulation (EC) No 1272/2008 Eye Irrit. 2; H319;

[CLP/GHS]

Substance / mixture hazardous properties Highly flammable liquid and vapour. Irritates the eyes.

2.2. Label elements

Hazard Pictograms (CLP)



Signal word Danger

Hazard statements H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements P102 Keep out of reach of children.

	P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. P233 Keep container tightly closed. 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 Type of preparation: Gel Contains: 680 g/kg of ethanol and 131 g/kg of propan-2-ol Dosage: Apply approximately 3 ml and see to that your hands are wet for at least 30 sec. Rub until hands are dry (EN 1500).

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 Registration number: 01-2119457610-43 Synonyms: Ethyl alcohol	Flam. Liq. 2; H225; Eye Irrit. 2; H319;	60 - 90 %
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE3; H336	5 - 15 %
Glycerine	CAS no.: 56-81-5 EC no.: 200-289-5 Synonyms: Glycerol		< 1 %
2-Methylpropan-2-ol	CAS no.: 75-65-0 EC no.: 200-889-7 Index no.: 603-005-00-1 Synonyms: 2-Methylpropan-2-ol	Flam. Liq. 2; H225 Acute tox. 4; H332 Eye Irrit. 2; H319 STOT SE 3; H335	< 1 %
2-Amino-2-methylpropanol	CAS no.: 124-68-5 EC no.: 204-709-8 Index no.: 603-070-00-6	Eye Irrit. 2; H319 Skin Irrit. 2; H315 Aquatic Chronic 3; H412	< 0,1 %
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	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	Flush immediately with plenty of water for at least 5 minutes. Hold the eyelids apart. Remove any contact lenses. 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: fatigue, dizziness, headache, nausea and vomiting. Eye Contact: irritation (redness, burning, tearing). Ingestion: discomfort, can cause symptoms similar to those from inhalation.
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4.3. Indication of any immediate medical attention and special treatment needed

Other Information Treat symptomatically. No specific information from the manufacturer.

SECTION 5: Firefighting measures

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 Highly flammable liquid and vapour. Vapours may form explosive mixture with air 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.

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 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.
Provide good ventilation. Avoid inhalation of vapours. Do not smoke or use open fire, or other sources of ignition. Static electricity and formation of sparks must be prevented.
Avoid contact with textiles.

Protective Safety Measures

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.

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 Registration number: 01-2119457610-43 Synonyms: Ethyl alcohol	8-hour TWA: 1000 ppm 8-hour TWA: 1920 mg/m ³	2014
Propan-2-ol	CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0	8-hour TWA: 400 ppm 8-hour TWA: 999 mg/m ³ 15 min.: 500 ppm 15 min.: 1250 mg/m ³	
2-Methylpropan-2-ol	CAS no.: 75-65-0 EC no.: 200-889-7 Index no.: 603-005-00-1 Synonyms: 2-Methylpropan-2-ol	8-hour TWA: 100 ppm 8-hour TWA: 308 mg/m ³ 15 min.: 150 ppm 15 min.: 462 mg/m ³	2011

Other Information about threshold limit values

References (laws/regulations): EH40/2005 Workplace exposure limits, with later amendments.

DNEL / PNEC

Control parameters comments

Ethanol:

DNEL Consumer, oral, long term (repeated) exposure: 87 mg/kg
 DNEL Worker, inhalation, long term (repeated) exposure, systemic effect: 950 mg/m³ (500 ppm)
 DNEL Consumer, inhalation, short term (acute) exposure, local effect: 950 mg/m³
 DNEL Consumer, dermal, long term (repeated) exposure: 206 mg/kg
 DNEL Consumer, inhalation, long term (repeated) exposure: 114 mg/m³
 DNEL Worker, dermal, long term (repeated) exposure, systemic effect: 343 mg/kg
 DNEL Worker, inhalation, short term (acute) exposure, local effect: 1900 mg/m³
 PNEC Sediment (fresh water): 3,6 mg/kg
 PNEC Salt water: 0,79 mg/l
 PNEC Fresh water: 0,96 mg/l
 PNEC Soil: 0,63 mg/l

8.2. Exposure controls

Limitation of exposure on workplace

Provide adequate ventilation. Eyewash facilities should be available at the workplace. 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.
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Eye / face protection

Eye protection	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.
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Appropriate environmental exposure control

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

Other Information	Eye wash facilities must be available when handling this chemical.
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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	Viscous liquid. / Gel.
Colour	Clear Colourless.
Odour	Alcohol.
Comments, Odour limit	Not specified by the manufacturer.
pH (as supplied)	Value: 6-8
Comments, Melting point / melting range	Not specified by the manufacturer.
Boiling point / boiling range	Value: ~ 80 °C
Flash point	Value: 18 °C
Comments, Evaporation rate	Not specified by the manufacturer.
Flammability (solid, gas)	Not relevant, see flash point.
Comments, Explosion limit	Not specified by the manufacturer.
Comments, Vapour pressure	Not specified by the manufacturer.
Vapour density	Value: > 1 Reference gas: air = 1
Specific gravity	Value: 0,837-0,842 kg/dm ³
Solubility in water	Fully miscible.
Comments, Partition coefficient: n-octanol / water	Not specified by the manufacturer.
Comments, Spontaneous combustability	Not specified by the manufacturer.
Viscosity	Value: 300-500 mPas (cP)
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.
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SECTION 10: Stability and reactivity

10.1. Reactivity

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

SECTION 11: Toxicological information**11.1. Information on toxicological effects****Toxicological Information:**

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

2-Methylpropan-2-ol:
LC50 inhalation, rat, 4h: > 30 mg/l (literature data)

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.
Eye contact Irritation, burning, lachrymation, blurred vision after liquid splash.
Ingestion May cause discomfort if swallowed. Ingestion may cause similar symptoms to those resulting from inhalation.

Assessment corrosion / irritation classification Causes serious eye irritation.

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.
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.

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 Ethanol:
LC50 (fish 48h): 8.140 mg/l (Species: Leuciscus idus, IUCLID)
EC50 (Daphnia, 48h): 9.268 - 14.221 mg/l (Species: Daphnia magna, IUCLID)
IC5 (algae, 168h): 5.000 mg/l (Species: Scenedesmus quadricauda (green algae), IUCLID)

EC5 (bacteria, 16h): 6.500 mg/l (Species: Pseudomonas putida, IUCLID)

The chemical is not classified as harmful to the environment.

12.2. Persistence and degradability

Persistence and degradability The product is expected to be 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 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.

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 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 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 ≤ 1 liter/inner packaging and ≤ 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, propan-2-ol)

RID ALCOHOLS, N.O.S. (ethanol, propan-2-ol)

IMDG ALCOHOLS, N.O.S. (ethanol, propan-2-ol)

ICAO/IATA ALCOHOLS, N.O.S. (ethanol, propan-2-ol)

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
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14.6. Special precautions for user

ADR additional information	Tunnel restriction code (D/E)
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IMDG Additional information	Fp 18 °C C.c.
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EmS	F-E, S-D
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14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Pollution category	Not relevant.
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SECTION 15: Regulatory information

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

References (laws/regulations)	<p>Regulation (EC) No 1907/2006 on Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with later amendments.</p> <p>Regulation (EC) No 1272/2008 on classification, labelling and packaging of substances and mixtures (CLP-regulation) with later amendments.</p> <p>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.</p> <p>The Hazardous Waste (England and Wales) Regulations 2005 with amendments.</p> <p>Dangerous Goods regulations</p> <p>Highly Flammable Liquid Regulations 1972.</p>
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15.2. Chemical safety assessment

Chemical safety assessment performed	No
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SECTION 16: Other information

Supplier's notes	The information contained in this SDS must be made available to all those who handle the product.
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Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]	<p>Flam. Liq. 2; H225;</p> <p>Eye Irrit. 2; H319;</p>
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List of relevant H-phrases (Section 2 and 3).	<p>H412 Harmful to aquatic life with long lasting effects.</p> <p>H336 May cause drowsiness or dizziness.</p> <p>H315 Causes skin irritation.</p> <p>H335 May cause respiratory irritation.</p> <p>H332 Harmful if inhaled.</p> <p>H225 Highly flammable liquid and vapour.</p> <p>H319 Causes serious eye irritation.</p>
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Abbreviations and acronyms used	<p>DNEL: Derived No Effect Level</p> <p>EC5: The effective concentration of substance that causes 5% of the maximum response</p> <p>EC50: The effective concentration of substance that causes 50% of the maximum response</p> <p>LC50: Median concentration lethal to 50% of a test population.</p> <p>LD50: Lethal dose, is the amount of a substance given to a group of test animals, which causes the death of 50%.</p> <p>PBT: Persistent, Bioaccumulative and Toxic</p> <p>PNEC: Predicted No Effect Concentration</p>
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Important data sources used to construct the safety data sheet	vPvB: very Persistent and very Bioaccumulative Recipe from manufacturer.
Information which has been added, deleted or revised	1.1
Checking quality of information	This SDS is quality controlled by National Institute of Technology in Norway, certified according to the Quality Management System requirements specified in ISO 9001:2008.
Version	4
Responsible for safety data sheet	CCS Healthcare AB
Prepared by	Teknologisk Lab AB, Göteborg / Milvi Rohla