



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

1.1 Product identifier:

Deliferm AlcoSurface

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

Hygienic surface cleaner

Concentration in use: ready for use

1.3 Details of the supplier of the safety data sheet:

Brouwland bvba

Korspelsesteenweg 86, 3581 Beverlo, Belgium

Tel: 011 40 14 08

E-mail: contact@brouwland.com

Website: www.brouwland.com

1.4 Emergency telephone number:

+32 70 245 245

2 SECTION 2: Hazards identification:

2.1 Classification of the substance or mixture:

Classification of the substance or mixture in accordance with regulation (EU) 1272/2008:

H225 Flam. Liq. 2 H319 Eye Irrit. 2

2.2 Label elements:

Pictograms:



Signal word: danger

Hazard statements:

H225 Flam. Liq. 2: Highly flammable liquid and vapour.

H319 Eye Irrit. 2: Causes serious eye irritation.

Precautionary statements:

P210: Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

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.

P370+P378: In case of fire: Use carbon dioxide (CO₂) or dry chemical extinguisher for extinction

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

P501: Dispose of contents/container in accordance with local/regional/national/international regulations.

Contains:

None

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2.3 Other hazards:

None

3 SECTION 3: Composition/information on ingredients:

Ethanol	≤ 80 %	CAS number: 64-17-5 EINECS: 200-578-6 REACH Registration number: 01-2119457610-43 CLP Classification: H225 Flam. Liq. 2 H319 Eye Irrit. 2
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For the full text of the H phrases mentioned in this section, see section 16

4 SECTION 4: First aid measures:

4.1 Description of first aid measures:

Always ask medical advice as soon as possible should serious or continuous disturbances occur.

Skin contact: Rinse with water.

Eye contact: Rinse first with plenty of water, if necessary seek medical attention.

Ingestion: Rinse first with plenty of water, if necessary seek medical attention.

Inhalation: In case of serious or continuous discomforts: remove to fresh air and seek medical attention.

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

Skin contact: None

Eye contact: Redness

Ingestion: Diarrhoea, headache, abdominal cramps, sleepiness, vomiting

Inhalation: None

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

None

5 SECTION 5: Fire-fighting measures:

5.1 Extinguishing media:

CO₂, foam, powder, sprayed water

5.2 Special hazards arising from the substance or mixture:

None

5.3 Advice for firefighters:

Extinguishing agents to be avoided:

None

6 SECTION 6: Accidental release measures:

6.1 Personal precautions, protective equipment and emergency procedures:

Do not walk into or touch spilled substances and avoid inhalation of fumes, smoke, dusts and vapours by staying up wind. Remove any contaminated clothing and used contaminated protective equipment and dispose of it safely.

6.2 Environmental precautions:

Do not allow to flow into sewers or open water.

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6.3 Methods and material for containment and cleaning up:

Contain released substance, store into suitable containers. If possible, remove by using absorbent material.

6.4 Reference to other sections:

For further information, check sections 8 & 13.

7 SECTION 7: Handling and storage:

7.1 Precautions for safe handling:

Handle with care to avoid spillage.

7.2 Conditions for safe storage, including any incompatibilities:

Keep in a sealed container in a closed, frost-free, ventilated room.

7.3 Specific end use(s):




Hygienic surface cleaner

8 SECTION 8: Exposure controls/personal protection:

8.1 Control parameters:

Listing of the hazardous ingredients in section 3, of which the TLV value is known
Ethanol 1,907 mg/m³, Methyl ethyl ketone 600 mg/m³, Isopropanol 424 mg/m³

8.2 Exposure controls:

Inhalation protection:	Respiratory protection is not required. Use ABEK type gas masks in case of irritating exposure. If necessary, use with sufficient exhaust ventilation.	
Skin protection:	Handling with nitril-gloves (EN 374). Breakthrough time: >480' Material thickness: 0,35 mm. Thoroughly check gloves before use. Take of the gloves properly without touching the outside with your bare hands. The manufacturer of the protective gloves has to be consulted about the suitability for a specific work station. Wash and dry your hands.	
Eye protection:	Keep an eye-rinse bottle within reach. Tight-fitting safety goggles. Wear a face shield and protective suit in case of exceptional processing problems.	
Other protection:	Wear impermeable clothing. The type of protective equipment depends on the concentration and amount of hazardous substances at the work station in question.	

9 SECTION 9: Physical and chemical properties:

9.1 Information on basic physical and chemical properties:

Melting point/melting range: /

Boiling point/Boiling range: 78 °C — 100°C

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pH: /
pH 1% diluted in water: 7.0
Vapour pressure/20°C: 5 850 Pa
Vapour density: Not applicable
Relative density, 20°C: 0.8200 kg/l
Appearance/20°C: Liquid
Flash point: 18 °C
Flammability (solid, gas): Not applicable
Auto-ignition temperature: 370 °C
Upper flammability or explosive limit, (Vol %): 19.000 %
Lower flammability or explosive limit, (Vol %): 3.000 %
Explosive properties: Not applicable
Oxidising properties: Not applicable
Decomposition temperature: /
Solubility in water: Completely soluble
Partition coefficient: noctanol/ water: Not applicable
Odour: characteristic
Odour threshold: Not applicable
Dynamic viscosity, 20°C: 1 mPa.s
Kinematic viscosity, 40°C: 1 mm²/s
Evaporation rate (n-BuAc = 1): 2.000

9.2 Other information:

Volatile organic component (VOC): 75.00 %
Volatile organic component (VOC): 614.989 g/l
Sustained combustion test : /

10 SECTION 10: Stability and reactivity:

10.1 Reactivity:

Stable under normal conditions.

10.2 Chemical stability:

Extremely high or low temperatures.

10.3 Possibility of hazardous reactions:

None

10.4 Conditions to avoid:

Protect from sunlight and do not expose to temperatures exceeding + 50°C.

10.5 Incompatible materials:

Acids, alkalines, oxidants, reductants

10.6 Hazardous decomposition products:

Under recommended usage conditions, hazardous decomposition products are not expected.

11 SECTION 11: Toxicological information:

11.1 Information on toxicological effects:

H319 Eye Irrit. 2: Causes serious eye irritation

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Calculated acute toxicity, ATE oral: /
Calculated acute toxicity, ATE dermal: /

Ethanol	LD50 oral, rat: $\geq 5\ 000$ mg/kg LD50 dermal, rabbit: $\geq 5\ 000$ mg/kg LC50, Inhalation, rat, 4h: ≥ 50 mg/l
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12 SECTION 12: Ecological information:

12.1 Toxicity:

Ethanol	LC50 (Fish): 13000 mg/L (<i>Oncorhynchus mykiss</i>)(96h) EC50 (Daphnia): 12340 mg/L (48h) EC50 (Algae): 275 mg/L (<i>Chlorella vulgaris</i>)(72h)
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12.2 Persistence and degradability:

No additional data available

12.3 Bioaccumulative potential:

	Additional data:
Ethanol	Log Pow: -0,35

12.4 Mobility in soil:

Water hazard class, WGK (AwSV): 1

Solubility in water: Completely soluble

12.5 Results of PBT and vPvB assessment:

No additional data available

12.6 Other adverse effects:

No additional data available

13 SECTION 13: Disposal considerations:

13.1 Waste treatment methods:

The product may be discharged in the indicated percentages of utilization, provided it is neutralised to pH 7. Possible restrictive regulations by local authority should always be adhered to.

14 SECTION 14: Transport information:

14.1 UN number:

1170

14.2 UN proper shipping name:

UN 1170 Ethanol, solution, 3, II, (D/E)

14.3 Transport hazard class(es):

Class(es): 3

Identification number of the hazard: 33

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14.4 Packing group:

II

14.5 Environmental hazards:

Not dangerous to the environment

14.6 Special precautions for user:

Hazard characteristics: Risk of fire. Risk of explosion. Containments may explode when heated.

Additional guidance: Take cover. Keep out of low areas.



15 SECTION 15: Regulatory information:

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

Water hazard class, WGK (AwSV): 1

Volatile organic component (VOC): 74.999 %

Volatile organic component (VOC): 614.989 g/l

Composition by regulation (EC) 648/2004: None

15.2 Chemical Safety Assessment:

No data available

16 SECTION 16: Other information:

Legend to abbreviations used in the safety data sheet:

ADR: The European Agreement concerning the International Carriage of Dangerous Goods by Road

ATE: Acute Toxicity Estimate

BCF: Bioconcentration factor

CAS: Chemical Abstracts Service

CLP: Classification, Labelling and Packaging of chemicals

EINECS: European INventory of Existing commercial Chemical Substances

LC50: median Lethal Concentration for 50% of subjects

LD50: median Lethal Dose for 50% of subjects

Nr.: Number

PTB: Persistent, Toxic, Bioaccumulative

TLV: Threshold Limit Value

vPvB: very Persistent and very Bioaccumulative substances

WGK: Water hazard class

WGK 1: Slightly hazardous for water

WGK 2: Hazardous for water

WGK 3: Extremely hazardous for water

Legend to the H Phrases used in the safety data sheet:

H225 Flam. Liq. 2: Highly flammable liquid and vapour. **H319 Eye Irrit. 2:** Causes serious eye irritation.

CLP Calculation method: Calculation method

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