

## Safety Data Sheet

### DISINFECTOR 85% + 0,5% CHLORHEXIDINE

Replaces date: 27/02/2015

Revision date: 11/11/2015

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

##### 1.1. Product identifier

**Trade name:** DISINFECTOR 85% + 0,5% CHLORHEXIDINE

**Group name:** Chlorhexidine disinfection

**Article no**

Article no	Description
3930	

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

**Recommended uses:** Biocide.  
Use biocides safely. Always read the label and product information before use.  
The product is used for the disinfection of skin / hands.

**Inadvisable uses:** The product is not suitable for surface disinfection.

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

###### Manufacturer

**Company:** Plum A/S  
**Address:** Frederik Plums Vej 2  
**Zip code:** 5610 Assens  
**Country:** DENMARK  
**E-mail:** info@plum.dk  
**Phone:** +45 64712112  
**Fax:** +45 64712125

##### 1.4. Emergency Telephone Number

0870 600 6266 (UK only) Only available to health professionals. The emergency telephone is open 24 hours.

#### SECTION 2: Hazards identification

##### 2.1. Classification of the substance or mixture

**CLP-classification:** Flam. Liq. 2;H225 Eye Irrit. 2;H319 Aquatic Chronic 3;H412

**Most serious harmful effects:** Highly flammable liquid and vapour. Causes serious eye irritation. Harmful to aquatic life with long lasting effects. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

##### 2.2. Label elements

###### Pictograms

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**Signal word:** Danger

### Hazard Statements

- H225 Highly flammable liquid and vapour.
- H319 Causes serious eye irritation.
- H412 Harmful to aquatic life with long lasting effects.

### 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.
- P305/351/338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

### 2.3. Other hazards

The product does not contain any PBT or vPvB substances.

## SECTION 3: Composition/information on ingredients

### 3.2. Mixtures

Substance	CAS number	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Ethanol	64-17-5	200-578-6	01-2119457610-43-xxxx	65 - 85%	15	Flam. Liq. 2;H225 Eye Irrit. 2;H319
Water	7732-18-5	231-791-2		10 - 20%		
propan-2-ol	67-63-0	200-661-7	01-2119457558-25-xxxx	5 - 15%		Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336
2-methylpropan-2-ol	75-65-0	200-889-7		1 - 5%		Flam. Liq. 2;H225 Eye Irrit. 2;H319 Acute Tox. 4;H332 STOT SE 3;H335
glycerol	56-81-5			< 1%		
Chlorhexidine Digluconate	18472-51-0	242-354-0		< 1%		Eye Dam. 1;H318 Aquatic Acute 1;H400 Aquatic Chronic 1;H410

Please see section 16 for the full text of R-phrases and H-phrases.

15 = REACH-registered with a different classification than in Regulation 1272/2008 Appendix VI.

## SECTION 4: First aid measures

### 4.1. Description of first aid measures

- Inhalation:** Seek fresh air. Seek medical advice in case of persistent discomfort.
- Ingestion:** Wash out mouth thoroughly and drink 1-2 glasses of water in small sips. Seek medical advice in case of discomfort.
- Skin contact:** The product is intended to come into contact with the skin. In case of wound smarts, flush with water.
- Eye contact:** Flush immediately with water (preferably using eye wash equipment) for at least 5 minutes. Open eye wide. Remove any contact lenses. Seek medical advice.

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**Burns:** Flush with water until pain ceases. Remove clothing that is not stuck to the skin - seek medical advice/transport to hospital. If possible, continue flushing until medical attention is obtained.

**General:** When obtaining medical advice, show the safety data sheet or label.

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

Irritating to eyes. Causes a burning sensation and tearing. The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.

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

No special immediate treatment required. Treat symptoms.

## SECTION 5: Fire-fighting measures

### 5.1. Extinguishing media

**Suitable extinguishing media:** Extinguish with powder, foam, carbon dioxide or water mist. Use water or water mist to cool non-ignited stock.

**Unsuitable extinguishing media:** Do not use water stream, as it may spread the fire.

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

The product decomposes when combusted and the following toxic gases can be formed: Carbon monoxide and carbon dioxide. Explosive mixtures may form with air when heated/exposed to fire.

### 5.3. Advice for fire-fighters

Move containers from danger area if it can be done without risk. Avoid inhalation of vapour and flue gases - seek fresh air. Wear Self-Contained Breathing Apparatus (SCBA) with a chemical protection suit only where personal (close) contact is likely.

## SECTION 6: Accidental release measures

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

**For non-emergency personnel:** Stop leak if this can be done without risk. Provide adequate ventilation. Smoking and naked flames prohibited. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment. Wear safety goggles if there is a risk of eye splash.

**For emergency responders:** In addition to the above: Normal protective clothing equivalent to EN 469 is recommended.

### 6.2. Environmental precautions

Do not discharge large quantities of concentrated spills and residue into drains.

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

Contain and absorb spill with sand or other absorbent, non-combustible material and transfer to suitable waste containers. Rinse with water. Wipe up minor spills with a cloth. Provide good ventilation.

### 6.4. Reference to other sections

See section 8 for type of protective equipment. See section 13 for instructions on disposal.

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### SECTION 7: Handling and storage

#### 7.1. Precautions for safe handling

Use the product under well-ventilated conditions. Take precautionary measures against static discharges. Use spark-free tools and explosion proof equipment. Smoking and naked flames prohibited. Wash hands before breaks, before using restroom facilities, and at the end of work. Running water and eye wash equipment must be available. A workplace assessment must be conducted to ensure that employees are not exposed to effects that may involve a risk during pregnancy.

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

Store safely and keep out of reach of children. Keep in tightly closed original packaging. Storage temperature: 0-30 °C.

#### 7.3. Specific end use(s)

None.

### SECTION 8: Exposure controls/personal protection

#### 8.1. Control parameters

##### Occupational exposure limit

Substance name	Time period	ppm	mg/m <sup>3</sup>	Comment	Remarks
Ethanol	8h	1.000	1.920		
Ethanol	15m				
propan-2-ol	8h	400	999		
propan-2-ol	15m	500	1250		
2-methylpropan-2-ol	8h	100	308		
2-methylpropan-2-ol	15m	150	462		

**Measuring methods:** Compliance with the stated occupational exposure limits may be checked by occupational hygiene measurements.

**Legal basis:** EH40/2005 Workplace exposure limits incl. supplement from October 2007.

#### 8.2. Exposure controls

**Appropriate engineering controls:** Wear the personal protective equipment specified below.

**Personal protective equipment, eye/face protection:** Not required.  
Wear safety goggles if there is a risk of eye splash. Eye protection must conform to EN 166.

**Personal protective equipment, hand protection:** The product is intended to come into contact with the skin. With long-term work or when cleaning up after large spills of the product, the use of e.g. nitril rubber gloves is recommended. The gloves should be change after use.

**Personal protective equipment, skin protection:** Not required.

**Personal protective equipment, respiratory protection:** Not required.

**Environmental exposure controls:** Ensure compliance with local regulations for emissions.

### SECTION 9: Physical and chemical properties

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

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Parameter	Value/unit
State	Liquid
Colour	Clear
Odour	Alcohol
Solubility	Soluble in the following: Water.
Explosive properties	Vapours may form explosive mixtures with air.
Oxidising properties	N/A

Parameter	Value/unit	Remarks
pH (solution for use)	No data	
pH (concentrate)	7 - 10	
Melting point	No data	
Freezing point	No data	
Initial boiling point and boiling range	78 °C	
Flash Point	< 21 °C	
Evaporation rate	No data	
Flammability (solid, gas)	No data	
Flammability limits	No data	
Explosion limits	No data	
Vapour pressure	No data	
Vapour density	No data	
Relative density	No data	
Partition coefficient n-octanol/water	No data	
Auto-ignition temperature	No data	
Decomposition temperature	No data	
Viscosity	No data	
Odour threshold	No data	

#### 9.2 Other information

Parameter	Value/unit	Remarks
Density	0,8 - 0,9 g/cm <sup>3</sup>	

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reacts with the following: Strong oxidisers.  
Explosive mixtures may form with air when heated/exposed to fire.

#### 10.2. Chemical stability

The product is stable when used in accordance with the supplier's directions.

#### 10.3. Possibility of hazardous reactions

None known.

#### 10.4. Conditions to avoid

Avoid heating and contact with ignition sources.

#### 10.5. Incompatible materials

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Strong oxidisers.

#### 10.6. Hazardous decomposition products

The product decomposes when combusted or heated to high temperatures and the following toxic gases can be formed:  
Carbon monoxide and carbon dioxide.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

##### Acute toxicity - oral

###### Ethanol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000mg/kg		OECD TG 401	Supplier

###### propan-2-ol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LD50		> 2000mg/kg			Supplier

Ingestion may cause discomfort. The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

##### Acute toxicity - dermal

###### Ethanol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 2000mg/kg		OECD TG 402	Supplier

###### propan-2-ol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	LD50		> 2000mg/kg			Supplier

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

##### Acute toxicity - inhalation

###### Ethanol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Mouse		4 h	> 20mg/l			Supplier

###### propan-2-ol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rat	LC50	8 h	> 20mg/l			Supplier

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

##### Skin corrosion/irritation

###### Ethanol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit	Irritation				OECD TG 404	Supplier

###### propan-2-ol

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Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Non-irritating		Supplier

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

#### Serious eye damage/eye irritation

##### Ethanol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Moderate eye irritation	OECD TG 405	Supplier

##### propan-2-ol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Rabbit				Irritating		Supplier

Irritating to eyes. Causes a burning sensation and tearing.

#### Respiratory sensitisation or skin sensitisation

##### Ethanol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Guinea Pig				Not sensitizing	OECD TG 406	Supplier

##### propan-2-ol

Organism	Test Type	Exposure time	Value	Conclusion	Test method	Source
Guinea Pig	Buehler-Test			Not sensitizing		Supplier

The product does not have to be classified. Based on existing data, the classification criteria are deemed not to have been met.

**Germ cell mutagenicity:** The product does not have to be classified. Test data are not available.

**Carcinogenic properties:** The product does not have to be classified. Test data are not available.

**Reproductive toxicity:** The product does not have to be classified. Test data are not available.

**Single STOT exposure:** The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication. Test data are not available.

**Repeated STOT exposure:** Prolonged or repeated inhalation of vapours may cause damage to the central nervous system. Test data are not available.

**Aspiration hazard:** The product does not have to be classified. Test data cannot be obtained for technical reasons.

**Other toxicological effects:** None known.

## SECTION 12: Ecological information

### 12.1. Toxicity

#### Ethanol

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Leuciscus idus melanotus	48 h		> 100mg/l			Supplier
Algae or other aquatic plants	Chlorella pyrenoidosa			5000 mg/l			Supplier

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Crustacea	Daphnia magna	24 h		> 100mg/l			Supplier
Bacteria	Pseudomonas putida	16 h		6500 mg/l			Supplier

#### propan-2-ol

Organism	Species	Exposure time	Test Type	Value	Conclusion	Test method	Source
Fish	Leuciscus idus melanotus	48 h	LC50	> 100mg/l			Supplier
Crustacea	Daphnia magna	48 h	EC50	> 100mg/l			Supplier
Algae or other aquatic plants	Scenedesmus subspicatus	72 h		> 100mg/l			Supplier

Harmful to aquatic life with long lasting effects.

#### 12.2. Persistence and degradability

Expected to be biodegradable. Test data are not available.

#### 12.3. Bioaccumulative potential

No bioaccumulation expected. Test data are not available.

#### 12.4. Mobility in soil

Test data are not available.

#### 12.5. Results of PBT and vPvB assessment

The product does not contain any PBT or vPvB substances.

#### 12.6. Other adverse effects

None known.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

Avoid unnecessary release to the environment. Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

Wiping cloths with organic solvents: EWC code: 15 02 02 Absorbents, filter materials (including oil filters not otherwise specified), wiping cloths, protective clothing contaminated by dangerous substances.

Empty, cleansed packaging should be disposed of for recycling. Uncleansed packaging is to be disposed of via the local waste-removal scheme.

16 03 05\* organic wastes containing dangerous substances

### SECTION 14: Transport information

#### Land transport (ADR/RID)

14.1. UN-No.:

1987

14.4. Packing group:

II



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<b>14.2. UN proper shipping name:</b>	ALCOHOLS, N.O.S. (Ethanol) (propan-2-ol)	<b>14.5. Environmental hazards:</b>	The product should not be labelled as an environmental hazard (symbol: fish and tree).
<b>14.3. Transport hazard class(es):</b>	3		
<b>Hazard label(s):</b>	3		
<b>Hazard identification number:</b>	33	<b>Tunnel restriction code:</b>	D/E
<b>Other Information:</b>			

#### Inland water ways transport (ADN)

<b>14.1. UN-No.:</b>	1987	<b>14.4. Packing group:</b>	II
<b>14.2. UN proper shipping name:</b>	ALCOHOLS, N.O.S. (Ethanol) (propan-2-ol)	<b>14.5. Environmental hazards:</b>	The product should not be labelled as an environmental hazard (symbol: fish and tree).
<b>14.3. Transport hazard class(es):</b>	3		
<b>Hazard label(s):</b>	3		
<b>Environmentally hazardous in tank vessels:</b>	Not applicable.	<b>Other Information:</b>	

#### Sea transport (IMDG)

<b>14.1. UN-No.:</b>	1987	<b>14.4. Packing group:</b>	II
<b>14.2. UN proper shipping name:</b>	ALCOHOLS, N.O.S. (Ethanol) (propan-2-ol)	<b>14.5. Environmental hazards:</b>	The product is not a Marine Pollutant (MP).
<b>14.3. Transport hazard class(es):</b>	3	<b>Environmental Hazardous Substance Name(s):</b>	
<b>Hazard label(s):</b>	3		
<b>EmS:</b>	F-E, S-D	<b>IMDG Code segregation group:</b>	- None -
<b>Other Information:</b>			

#### Air transport (ICAO-TI / IATA-DGR)

<b>14.1. UN-No.:</b>	1987	<b>14.4. Packing group:</b>	II
<b>14.2. UN proper shipping name:</b>	ALCOHOLS, N.O.S. (Ethanol) (propan-2-ol)	<b>14.5. Environmental hazards:</b>	
<b>14.3. Transport hazard class(es):</b>	3		
<b>Hazard label(s):</b>	3	<b>Other Information:</b>	

#### 14.6. Special precautions for user

None.

#### 14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC code

Not applicable.

### SECTION 15: Regulatory information

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

**Special Provisions:** Special care should be applied for employees under the age of 18. Young people under the age of 18 may not carry out any work causing harmful exposure to this product. This product is covered by Directive 98/8/EC of the European Parliament and of the Council concerning the placing of biocidal products on the market, and will be covered by the EU

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Biocides Regulation 528/2012 as appropriate.

#### 15.2. Chemical Safety Assessment

**Other Information:** Chemical safety assessment has not been performed.

#### SECTION 16: Other information

##### Version history and indication of changes

Version	Revision date	Responsible	Changes
2.0.0	27/02/2015	SKP	453/2010 + 1272/2008 (UK)
2.1.0	11/11/2015	SKP	2015/830 + Section 1+3 (UK)

**Abbreviations:** DNEL: Derived No Effect Level PNEC: Predicted No Effect Concentration STOT: Specific Target Organ Toxicity PBT: Persistent, Bioaccumulative and Toxic vPvB: Very Persistent and Very Bioaccumulative

**Other Information:** Shelf life: 30 months. Additional information can be obtained by contacting info@plum.dk or by telephone +45 6471 2112.

**Training advice:** A thorough knowledge of this safety data sheet should be a prerequisite condition.

**Date:** 11/11/2015

**Classification method:** Calculation based on the hazards of the known components. Test data

##### List of relevant H-statements

H225	Highly flammable liquid and vapour.
H318	Causes serious eye damage.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.
H412	Harmful to aquatic life with long lasting effects.

##### SDS is prepared by

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