

Safety Data Sheet

Disinfectant 85% gel

Replaces date: 04/12/2017

Revision date: 27/11/2018

Version: 2.0.0

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

1.1. Product identifier

Trade name: Disinfectant 85% gel

Group name: Disinfection products

Article no

Article no	Description
6110A	Plum ref.

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

Recommended uses: Disinfectants PT 1 Human hygiene.
Hand disinfection.

Biocide. Use biocides safely. Always read the label and product information before use.

PC: Biocidal products (e.g. Disinfectants, pest control) (PC8)

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

City: Assens

Country: DENMARK

E-mail: info@plum.dk

Phone: +45 64712112

Fax: +45 64712125

Homepage: www.plum.dk

1.4. Emergency Telephone Number

Members of the public: 111 (NHS 111 (Scotland: NHS 24)) 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

Most serious harmful effects: Highly flammable liquid and vapour. Causes serious eye irritation. The product releases organic solvent vapours which may cause lethargy and dizziness.

2.2. Label elements

Pictograms

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Signal word: Danger

H-phrases

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

P-phrases

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.

Supplemental information

Use: Hand disinfection.

Type of formulation: Gel

Active substances: 682 g/kg ethanol and 131 g/kg propan-2-ol.

Dosage: Pump twice and rub hands thoroughly.

Waste treatment: Empty and cleaned packages may be disposed of or recycled as household waste. The product should be disposed of as hazardous waste.

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 No	EC No	REACH Reg. No.	Concentration	Notes	CLP-classification
Ethanol	64-17-5	200-578-6	01-2119457610-43-xxxx	60 - 70%	15	Flam. Liq. 2;H225 Eye Irrit. 2;H319
propan-2-ol	67-63-0	200-661-7	01-2119457558-25-xxxx	10 - 20%		Flam. Liq. 2;H225 Eye Irrit. 2;H319 STOT SE 3;H336
2-methylpropan-2-ol	75-65-0	200-889-7		< 1%		Flam. Liq. 2;H225 Eye Irrit. 2;H319 Acute Tox. 4;H332 STOT SE 3;H335
Glycerin/Glycerol	56-81-5			~ 1%		
2-amino-2-methylpropanol	124-68-5	204-709-8		< 0.1%		Skin Irrit. 2;H315 Eye Irrit. 2;H319 Aquatic Chronic 3;H412

Please see section 16 for the full text of 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.

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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.

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

Direct eye contact can cause irritation. The product releases organic solvent vapours which may cause lethargy and dizziness.

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.

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. 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.

SECTION 7: Handling and storage

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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.

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/m3	fiber/cm3	Comments	Remarks
propan-2-ol	8h	400	999			
propan-2-ol	15m	500	1250			
glycerol	8h		10		mist	
glycerol	15m				mist	
2-methylpropan-2-ol	8h	100	308			
2-methylpropan-2-ol	15m	150	462			
ethanol	8h	1.000	1.920			
ethanol	15m					

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

Legal basis: EH40/2005 Workplace exposure limits. Last amended December 2011.

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, skin protection: Not required.

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 changed after use.

Personal protective equipment, respiratory protection: Not required.

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

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SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Parameter	Value/unit
State	Gel
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/cm³	

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

Strong oxidisers.

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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, cas-no 64-17-5

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

propan-2-ol, cas-no 67-63-0

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, cas-no 64-17-5

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

propan-2-ol, cas-no 67-63-0

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, cas-no 64-17-5

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

propan-2-ol, cas-no 67-63-0

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, cas-no 64-17-5

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

propan-2-ol, cas-no 67-63-0

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, cas-no 64-17-5

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

propan-2-ol, cas-no 67-63-0

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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, cas-no 64-17-5

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

propan-2-ol, cas-no 67-63-0

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. Test data are not available.

Repeated STOT exposure: The product does not have to be classified. Test data are not available.

Aspiration hazard: The product does not have to be classified. Test data are not available.

Other toxicological effects: None known.

SECTION 12: Ecological information

12.1. Toxicity

Ethanol, cas-no 64-17-5

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

propan-2-ol, cas-no 67-63-0

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

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

12.2. Persistence and degradability

Expected to be biodegradable. Test data are not available.

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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.

Category of waste: 16 03 05* organic wastes containing hazardous substances

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN-No.:	1987	14.4. Packing group:	II
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Ethanol) (propan-2-ol)	14.5. Environmental hazards:	The product should not be labelled as an environmental hazard (symbol: fish and tree).
14.3. Transport hazard class(es):	3		
Hazard label(s):	3		
Hazard identification number:	33	Tunnel restriction code:	D/E

Inland water ways transport (ADN)

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

Sea transport (IMDG)

14.1. UN-No.:	1987	14.4. Packing group:	II
14.2. UN proper shipping name:	ALCOHOLS, N.O.S. (Ethanol) (propan-2-ol)	14.5. Environmental hazards:	The product is not a Marine Pollutant (MP).

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14.3. Transport hazard class(es):	3	Environmental Hazardous Substance Name(s):	
Hazard label(s):	3		
EmS:	F-E, S-D	IMDG Code segregation group:	- None -

Air transport (ICAO-TI / IATA-DGR)

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

14.6. Special precautions for user

None.

14.7. Transport in bulk according to Annex II of MARPOL and the IBC Code

Not applicable.

Other Information:	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. May be transported in limited quantities if placed in outer packaging according to IMDG 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.
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SECTION 15: Regulatory information

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

Special Provisions:

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 Biocides Regulation 528/2012 as appropriate.
Directive 2012/18/EU (Seveso), P5c FLAMMABLE LIQUIDS: Column 2: 5000 t, Column 3: 50000 t.

15.2. Chemical Safety Assessment

Other Information:	Chemical safety assessment has not been performed.
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SECTION 16: Other information

Version history and indication of changes

Version	Revision date	Responsible	Changes
1.0.0	04/12/2017	Plum A/S (SKP)	New
2.0.0	27/11/2018	Plum A/S (SKP)	1, 8, 16

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

References to literature and data sources:

REGULATION (EC) No 1907/2006 OF THE EUROPEAN PARLIAMENT AND OF THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).
REGULATION (EC) No 1272/2008 OF THE EUROPEAN PARLIAMENT AND OF THE

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COUNCIL of 16 December 2008 on classification, labelling and packaging of substances and mixtures (CLP).

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 (BPR).

COMMISSION REGULATION (EU) 2015/830 (SDS).

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: 27/11/2018

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

List of relevant H-statements

H225	Highly flammable liquid and vapour.
H225	Highly flammable liquid and vapour.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H319	Causes serious eye irritation.
H332	Harmful if inhaled.
H335	May cause respiratory irritation.
H336	May cause drowsiness or dizziness.
H412	Harmful to aquatic life with long lasting effects.

SDS is prepared by

Company: Plum A/S

Address: Frederik Plums Vej 2

Zip code: 5610

City: Assens

Country: DENMARK

E-mail: info@plum.dk

Phone: +45 64712112

Fax: +45 64712125

Homepage: www.plum.dk

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