

Material Safety Data Sheet

Completed 25-03-2020
SDS version 1.1

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

1.1. Product Identifier

Trade Name: Handdesinfection
Product- no.: -

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

Recommended uses:

PT 01 (Human hygiene): Used for human hygiene purposes, by contact with skin on the hands, with the primary purpose of disinfecting the surface of the hand surfaces, between the fingers, thumbs and fingernails.

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

Uses advised against:

This product must not be used for purposes other than those recommended without first seeking the advice of the supplier.

1.3. Details of the supplier of the safety data sheet

Company and address:

Biotech Force Danmark ApS
Gl. Donsvej 6
DK-6000 Kolding
Danmark

Contact person and E-mail:

Info@hdes.info

The Safety data sheet is completed and validated by:

mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: KSO

1.4. Emergency telephone number

NHS: 111

Use your national or local emergency number - See section 4 "First aid measures".

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

The product is not subject to labelling under CLP Regulation No. 1272/2008.

The product is a biocide covered by Regulation (EC) No 528/2012 concerning the making available on the market and use of biocidal products.

2.2. Label elements

-

Signal word:

-

Keep out of reach of children. (P102)

2.3. Other hazards

-

Additional labelling:

-

Additional warnings

Contains: 0,15 % (w/w) (1,425 g/L) Didecyldimethylammonium chloride

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SECTION 3: Composition/information on ingredients

3.1/3.2. Substances/Mixtures

Substance	EU-Index no. / REACH-Reg. no.	CAS-no.	EINECS-no.	CLP-classification	Wt/Wt %	Note
Didecyldimethylammonium chloride	612-131-00-6 / -	7173-51-5	230-525-2	Acute Tox. 4;H302, Skin Corr. 1B;H314	0,15	-
Propan-2-ol	603-117-00-0 / 01-2119457558-25-xxxx	67-63-0	200-661-7	Flam. Liq. 2;H225, Eye Irrit. 2;H319, STOT SE 3;H336	0,1	1

1) The substance is an organic solvent.

See full text of H-phrases in section 16.

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:

Intended for contact with skin.

Seek medical advice in case of persistent discomfort.

Eye contact:

Flush with water (preferably using eye wash equipment) until irritation subsides. Seek medical advice if symptoms persist.

Additional information:

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

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

May cause slight irritation to the skin and eyes.

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

Show this safety data sheet to the doctor in attendance.

SECTION 5: Firefighting measures

5.1. Extinguishing media

Surrounding fire:

Extinguish with powder, foam, carbon dioxide or water mist.

Do not use water stream, as it may spread the fire.

5.2. Special hazards arising from the substance or mixture

The product is not directly flammable. Avoid inhalation of vapour and fumes – seek fresh air.

Exposure to decomposition products may cause a health hazard.

5.3. Advice for firefighters

If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8 for type of protective equipment.

6.2. Environmental precautions

Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.

6.3. Methods and material for containment and cleaning up

Wipe up minor spills with a cloth.

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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

7.1. Precautions for safe handling

No special requirements.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely, out of reach of children.

7.3. Specific end use(s)

See application section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Occupational exposure limits according to EH40/2005 Workplace exposure limits (Third edition, 2018):

Substance	Long-term exposure limit ppm / mg/m ³	Short-term exposure limit ppm / mg/m ³	Note
Propan-2-ol	400 / 999	500 / 1250	-
DNEL/PNEC-values:			
DNEL Didecyldimethylammonium chloride			
	Workers		Consumers
Inhalation - Chronic Systemic	18,2 mg/m ³		-
Dermal - Chronic Systemic	8,6 mg/kg bw/day		-
DNEL Propan-2-ol			
	Workers		Consumers
Inhalation - Chronic Systemic	500 mg/m ³		89 mg/m ³
Dermal - Chronic Systemic	888 mg/kg bw/day		319 mg/kg bw/day
Oral - Chronic Systemic	-		26 mg/kg bw/day
Oral - Acute Systemic	-		26 mg/kg bw/day

PNEC Didecyldimethylammonium chloride

Fresh water	2 µg/L
Intermittent releases (Fresh water)	0,29 µg/L
Marine water	0,2 µg/L
Soil	1,4 mg/kg soil dw

PNEC Propan-2-ol

Fresh water	140,9 mg/L
Intermittent releases (Fresh water)	140,9 mg/L
Marine water	140,9 mg/L
Soil	28 mg/kg soil dw

8.2. Exposure controls

There are no exposure scenarios for this product.

Appropriate engineering controls:

Wear the personal protective equipment specified below.

Personal protective equipment:

Respiratory protection:

Not required.

Hand protection:

Not required.

Eye/face protection:

Generally not required.

Skin 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

Appearance:	
Physical state:	Liquid
Colour:	-
Odour:	-
Odour threshold:	-
pH:	-
Melting point/ Freezing Point (°C):	-
Initial boiling point and boiling range (°C):	-
Flash point (°C):	-
Evaporation rate:	-
Flammability (solid, gas):	-
Upper / lower flammability or explosion limits (vol-%):	-
Vapour pressure:	-
Vapour density (air=1):	-
Relative density:	-
Solubility(ies):	-
Partition coefficient: n-octanol/water:	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
Viscosity:	-
Explosive properties:	-
Oxidising properties:	-

9.2. Other information

None.

SECTION 10: Stability and reactivity

10.1. Reactivity

No data.

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

None known.

10.5. Incompatible materials

None known.

10.6. Hazardous decomposition products

No special precautions regarding contact with other materials at the recommended storage conditions.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity:

Based on the existing data, the classification is not met.

Substance	exposure	Species	Test	Result
Didecyldimethylammonium chloride	Oral	Rat	LD50	329 mg/kg bw
Didecyldimethylammonium chloride	Dermal	Rat	LD50	> 1000 mg/kg bw
Propan-2-ol	Oral	Rat	LD50	5,84 g/kg bw
Propan-2-ol	Inhalation	Rat	LC50/ 6 Hours	ca. 5000 ppm
Propan-2-ol	Dermal	Rabbit	LD50	16,4 mL/kg bw

Skin corrosion/irritation:

May cause slight irritation.

Serious eye damage/irritation:

May cause eye irritation.

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Respiratory or skin sensitisation:

Based on the existing data, the classification is not met.

Germ cell mutagenicity:

Based on the existing data, the classification is not met.

Carcinogenicity:

Based on the existing data, the classification is not met.

Reproductive toxicity:

Based on the existing data, the classification is not met.

STOT-single exposure:

Based on the existing data, the classification is not met.

STOT-repeated exposure:

Based on the existing data, the classification is not met.

Aspiration hazard:

Based on the existing data, the classification is not met.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
Didecyldimethylammonium chloride	48 Hours:	Fish	LC50	0,49 mg/L
Didecyldimethylammonium chloride	48 Hours:	Daphnia	EC50	0,029 mg/L
Propan-2-ol	24 Hours:	Fish	LC50	9640 mg/L
Propan-2-ol	24 Hours:	Daphnia	LC50	> 10000 mg/L

12.2. Persistence and degradability

Substance	Biodegradability	Test	Result
Didecyldimethylammonium chloride	Yes	OECD Guideline 301 B	28 Days: 71%
Propan-2-ol	Yes	EU Method C.5	5 Days: 53%

12.3. Bioaccumulative potential

Substance	Potential bioaccumulation	LogPow
Didecyldimethylammonium chloride	No	-0,41
Propan-2-ol	No	0,05

12.4. Mobility in soil

Test data are not available.

12.5. Results of PBT and vPvB assessment

The product does not meet the criteria for PBT or vPvB.

12.6. Other adverse effects

None.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

The product is covered by the regulations on dangerous waste.

Collect spills and waste in closed, leak-proof containers for disposal at the local hazardous waste site.

EWC-Code	Description
06 13 01	Inorganic plant protection products, wood-preserving agents and other biocides.

Specific labelling:

-

Contaminated packaging:

Empty packaging must be disposed of through the municipal waste collection service for hazardous waste.

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SECTION 14: Transport information

The product is not covered by the rules for transport of dangerous goods by road and sea according to ADR and IMDG.

14.1 -14.4.

ADR

-

IMDG

-

14.5. Environmental hazards

-

14.6. Special precautions for user

-

14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not relevant.

SECTION 15: Regulatory information

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

Sources:

EH40/2005 Workplace exposure limits (Third edition, 2018).

Additional labelling:

-

Restrictions for application:

-

Demands for specific education:

-

15.2. Chemical safety assessment

None.

SECTION 16: Other information

According to EU regulation 1907/2006 (REACH)

Other information:

Sources:

EC regulation 1907/2006 (REACH).

EC Regulation 1272/2008 (CLP).

EU regulation no. 276/2010

Directive 2000/532/EC

ECHA-The European Chemicals Agency

Full text of H-phrases as mentioned in section 2+3:

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H304	May be fatal if swallowed and enters airways.
H314	Causes severe skin burns and eye damage.
H315	Causes skin irritation.
H319	Causes serious eye irritation.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H410	Very toxic to aquatic life with long lasting effects.

Classification according to Regulation (EC) Nr. 1272/2008:

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Abbreviations and acronyms used in the safety data sheet:

REACH: Registration, Evaluation, Authorisation and Restriction of Chemicals. Regulation (EC) No 1907/2006.

CLP: Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008.

CAS-Number.: Chemical Abstracts Service number.

EC-Number.: EINECS and ELINCS Number (see also EINECS and ELINCS).

DNEL: Derived No Effect Level.

PNEC(s): Predicted No Effect Concentration(s).

STOT: Specific Target Organ Toxicity.

LD50: Lethal Dose to 50% of a test population (Median Lethal Dose).

LC50: Lethal Concentration to 50 % of a test population.

EC50: The effective concentration of substance that causes 50% of the maximum response.

PBT: Persistent, Bioaccumulative and Toxic.

vPvB: Very Persistent and Very Bioaccumulative.

NOEC: The highest tested concentration at which, in a study, no statistically significant effect is observed in the exposed population compared with an appropriate control group.

NOAEL: The highest tested dose or exposure level at which there are no statistically significant increases in the frequency or severity of adverse effects between the exposed population and an appropriate control group; some effects may be produced at this level, but they are not considered adverse or precursors of adverse effects.

Other:

The information in this safety data sheet applies only to this specific product (mentioned in section 1) and is not necessarily correct for use with other chemicals/products.

Minor changes have been made in following sections:

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This material safety data sheet replaces version:

1.0