

Material Safety Data Sheet

Completed 05-01-2024
Revision: (date) -
SDS version 1.0

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

1.1. Product Identifier

Trade Name: Neutralon
Product- no.: -
UFI: Y7FG-TG4F-3XSQ-GPN8

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

Recommended uses:

Algal sanitizing solution - Concentrated. For hard surfaces.

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:

NowoCoat Industrial A/S
Staalvej 3
DK-6000 Kolding
Tlf.: 75 50 11 11
www.nowocoat.dk

Contact person and E-mail:

mail@nowocoat.dk

The Safety data sheet is completed and validated by:

Mediator A/S, Centervej 2, DK-6000 Kolding. Consultant: KN

1.4. Emergency telephone number

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

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

CLP (1272/2008):
Skin Corr. 1B; H314
Aquatic Chronic 2; H411

The product is a biocide covered by Regulation (EC) No 528/2012 concerning the making available on the market and use of biocidal products.
See full text of H-phrases in section 16.

2.2. Label elements



Signal word:

Danger

Causes severe skin burns and eye damage. (H314)
Toxic to aquatic life with long lasting effects. (H411)

If medical advice is needed, have product container or label at hand. (P101)

Keep out of reach of children. (P102)

Avoid release to the environment. (P273)

Wear protective gloves/protective clothing/eye protection/face protection. (P280)

IF SWALLOWED: Rinse mouth. Do NOT induce vomiting. Immediately call a POISON CENTER/doctor. (P301 + P330 + P331 + P310)

IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water. Immediately call a POISON CENTER/doctor. (P303 + P361 + P353 + P310)

IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/doctor. (P305 + P351 + P338 + P310)

Wash contaminated clothing before reuse. (P363)

Dispose of contents/container in accordance with local regulation. (P501)

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2.3. Other hazards

The product contains organic solvents. Repeated exposure to organic solvents may cause damage to the central nervous system and internal organs fx. liver and kidney.

Additional labelling:

Active substance (PT 2):
Didecyldimethylammonium chloride (CAS-nr.: 7173-51-5); 5 % (Wt/Wt) - 50 g/L.

Additional warnings

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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. 3; H301, Skin. Corr. 1B; H314, Aquatic Acute 1; H400, M=1, Aquatic Chronic 1; H410, M=1	5	-
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	1-5	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 medical advice in case of discomfort.

Ingestion:

Wash out mouth thoroughly and drink 1-2 glasses of water in small sips.
Do not induce vomiting.
Seek medical advice immediately.

Skin contact:

Immediately remove contaminated clothing.
Wash the skin thoroughly with water and continue washing for a long time.
Seek medical advice immediately.

Eye contact:

Open eye wide, remove any contact lenses and flush immediately with water (preferably using eye wash equipment). Seek medical advice

Additional information:

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

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

Tissue damaging effects: This product contains substances which are corrosive. If vapour or aerosols are inhaled, it can result in damage to lungs,

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

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

Send contaminated extinguishing water for destruction.
Extinguishing water which has been in contact with the product may be corrosive.
If there is a risk of exposure to vapour and flue gases, a self-contained breathing apparatus must be worn.

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SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

See section 8 for type of protective equipment.
Avoid breathing and contact with skin and eyes.

6.2. Environmental precautions

Notify proper authorities in case of contamination of soil or aquatic environment or discharge to drains.
Prevent spillage from entering drains and/or surface water.

6.3. Methods and material for containment and cleaning up

Contain and absorb spill with sand or other absorbent material and transfer to suitable waste containers.
Caution! Causes burns.

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

See section 8 for information about precautions for use and personal protective equipment.
Running water and eye wash equipment must be available.

7.2. Conditions for safe storage, including any incompatibilities

The product should be stored safely, out of reach of children and away from food, animal feeding stuffs, medicines, etc.
Keep in tightly closed original packaging.
Store in a dry, cool, well-ventilated area.

7.3. Specific end use(s)

See application section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Indicative occupational exposure limit value (IOELV)

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DNEL/PNEC-values:

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	1,1 µg/L
Intermittent releases (Fresh water)	0,21 µg/L
Marine water	0,11 µg/L
Intermittent releases (Marine water)	0,021 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.
Wash hands before breaks, before using restroom facilities, and at the end of work.

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Personal protective equipment:



Respiratory protection:

Generally not required.

Hand protection:

Wear protective gloves made of nitrile rubber.

Type of material and thickness: $\geq 0,11$ mm

Penetration time: ≥ 480 min

Change gloves immediately if contaminated, and wash hands with soap and water.

Eye/face protection:

Wear safety goggles/face protection.

Skin protection:

Special work clothing should be used.

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

Physical state:	Liquid
Colour:	-
Odour:	-
Melting point/ Freezing Point (°C):	-
Boiling point or initial boiling point and boiling range (°C):	-
Flammability:	-
Lower and upper explosion limit (vol-%):	-
Flash point (°C):	-
Auto-ignition temperature (°C):	-
Decomposition temperature (°C):	-
pH:	-
Kinematic viscosity (mm ² /s):	-
Solubility:	-
Partition coefficient n-octanol/water (log value)	-
Vapour pressure:	-
Density and/or relative density:	-
Relative vapour density:	-
Particle characteristics:	-

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

Avoid contact with strong bases.

Avoid contact with strong oxidising agents.

Avoid contact with strong reducing agents.

Avoid contact with strong acids.

10.6. Hazardous decomposition products

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

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SECTION 11: Toxicological information

11.1. Information on hazard classes as defined in Regulation (EC) No 1272/2008

Acute toxicity:

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

Substance	exposure	Species	Test	Result
Didecyldimethylammo nium chloride	Oral	Rat	LD50	329 mg/kg bw
Didecyldimethylammo nium 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	> 10000 ppm
Propan-2-ol	Dermal	Rabbit	LD50	16,4 mL/kg bw

Skin corrosion/irritation:

Has a corrosive effect and causes burning pain, reddening, blisters and burns.

May cause burns to mouth, gullet and stomach. Pains in mouth, throat and stomach. Difficulty in swallowing, indisposition and bloody vomit. Brown spots and burns may appear in and around the mouth.

Inhalation is corrosive to the upper airways. Causes a burning sensation in the nose, mouth and throat, together with sneezing, coughing, breathing difficulties and chest pain.

Serious eye damage/irritation:

May cause severe burns, pain, tearing and cramp of the eyelids. Risk of serious damage to eyes and loss of vision.

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:

The product releases organic solvent vapours which may cause lethargy and dizziness. At high concentrations, the vapours may cause headache and intoxication.

STOT-repeated exposure:

Prolonged or repeated inhalation of vapours may cause damage to the central nervous system.

Aspiration hazard:

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

11.2. Information on other hazards

Test data are not available.

SECTION 12: Ecological information

12.1. Toxicity

Substance	Test duration	Species	Test	Result
Didecyldimethylammo nium chloride	96 Hours	Fish	LC50	0,49 mg/L
Didecyldimethylammo nium chloride	48 Hours	Daphnia	EC50	0,029 mg/L
Propan-2-ol	96 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
Didecyldimethylammo nium chloride	Yes	OECD Guideline 301 B	28 Days 71%
Propan-2-ol	Yes	EU Method C.5	5 Days 53%

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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. Endocrine disrupting properties

Test data are not available.

12.7. Other adverse effects

Toxic to aquatic life with long lasting effects.

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
07 04 04	Other organic solvents, washing liquids and mother liquors

Specific labelling:

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Contaminated packaging:

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

SECTION 14: Transport information

The product is covered by the rules for transport of dangerous goods.

14.1 -14.4.

ADR

14.1. UN number or ID number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
1760	CORROSIVE LIQUID, N.O.S. (Didecyldimethylammonium chloride)	8	III

IMDG/IATA

14.1. UN number or ID number	14.2. UN proper shipping name	14.3. Transport hazard class(es)	14.4. Packing group
1760	CORROSIVE LIQUID, N.O.S. (Didecyldimethylammonium chloride)	8	III

14.5. Environmental hazards

If the quantity transported exceeds 5 kg or litre must be labelled with an environmental hazard.

14.6. Special precautions for user

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14.7. Maritime transport in bulk according to IMO instruments

Not relevant.

SECTION 15: Regulatory information

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

Sources:

Commission Directives 2000/39/EC, 2006/15/EC, 2009/161/EU, EU 2017/164 and EU 2019/1831 (the first, second, third, fourth and fifth IOELV Directives).

Directive 2004/37/EC with amendments

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Additional labelling:

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Restrictions for application:

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. Young people above 15 years are exempted this rule, if the product is a part of an education/training. Special care should be applied for pregnant and lactating women.

Demands for specific education:

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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), with amendments.
EC Regulation 1272/2008 (CLP), with amendments.
EC Regulation 528/2012 (BPR), with amendments.
EU regulation no. 276/2010
Directive 2008/98/EC
ECHA - The European Chemicals Agency

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

H225	Highly flammable liquid and vapour.
H301	Toxic if swallowed.
H314	Causes severe skin burns and eye damage.
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.
H411	Toxic to aquatic life with long lasting effects.

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

Skin Corr. 1B; H314	Expert judgement
Aquatic Chronic 2; H411	Expert judgement

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
NOAEL: The highest tested dose or exposure level at which there are no statistically significant increases in the frequency or severity of adverse

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

Minor changes have been made in following sections:

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This material safety data sheet replaces version:

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