

# SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended  
by UK REACH Regulations SI 2019/758

**schülke** 

## **thermosept® NDR**      **No Change Service!**

Version  
05.01

Revision Date:  
18.10.2024

Date of last issue: 16.02.2023

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

#### **1.1 Product identifier**

Trade name : thermosept® NDR

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

Use of the Sub-  
stance/Mixture : Disinfectants

Recommended restrictions  
on use : Restricted to professional users.

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

Producer : Schülke & Mayr GmbH  
Robert-Koch-Str. 2  
  
22851 Norderstedt  
Germany  
Telephone: +49 (0)40/ 52100-0  
Telefax: +49 (0)40/ 52100318  
mail@schuelke.com  
www.schuelke.com

Supplier : Schülke & Mayr UK Ltd.  
Cygnat House  
1, Jenkin Road  
  
Sheffield S9 1AT  
United Kingdom  
Telephone: +44 114 254 35 00  
Telefax: +44 114 254 35 01  
mail.uk@schulke.com

E-mail address of person  
responsible for the  
SDS/Contact person : Application Specialists  
+49 (0)40/ 521 00 666  
AD@schuelke.com

#### **1.4 Emergency telephone number**

Emergency telephone num-  
ber : Carechem 24 International: +44 1235 239670

### **SECTION 2: Hazards identification**

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

**Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK  
SI 2019/720, and UK SI 2020/1567)**

Skin irritation, Category 2

H315: Causes skin irritation.

Serious eye damage, Category 1

H318: Causes serious eye damage.

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Long-term (chronic) aquatic hazard, Category 1

H410: Very toxic to aquatic life with long lasting effects.

Long-term (chronic) aquatic hazard, Category 1

H410: Very toxic to aquatic life with long lasting effects.

### 2.2 Label elements

**Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)**

Hazard pictograms

:



Signal word

:

Danger

Hazard statements

:

H315 Causes skin irritation.  
H318 Causes serious eye damage.  
H410 Very toxic to aquatic life with long lasting effects.

Precautionary statements

:

#### **Prevention:**

P273 Avoid release to the environment.  
P280 Wear eye protection/ face protection.

#### **Response:**

P310 Immediately call a POISON CENTER/ doctor.  
P302 + P352 IF ON SKIN: Wash with plenty of soap and water.  
P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

Hazardous components which must be listed on the label:  
dimethyldioctylammonium chloride

### 2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

Chemical nature : Solution of the following substances with harmless additives.

#### **Hazardous components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
dimethyldioctylammonium chloride	5538-94-3 226-901-0	Acute Tox. 3; H301 Acute Tox. 2; H310	>= 3 - < 5

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	--- 01-2120767055-53-XXXX	Skin Corr. 1B; H314 Eye Dam. 1; H318 Aquatic Acute 1; H400 Aquatic Chronic 1; H410  M-Factor (Acute aquatic toxicity): 1 M-Factor (Chronic aquatic toxicity): 10	
Alcohols, C12-15, ethoxylated propoxylated	68551-13-3 --- --- ---	Aquatic Acute 1; H400  M-Factor (Acute aquatic toxicity): 1	>= 2.5 - < 10
1-phenoxypropan-2-ol	770-35-4 212-222-7 --- 01-2119486566-23-XXXX	Eye Irrit. 2; H319	>= 1 - < 10
Substances with a workplace exposure limit :			
propane-1,2-diol	57-55-6 200-338-0 --- 01-2119456809-23-XXXX		>= 10 - < 20

For explanation of abbreviations see section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

- General advice : Take off all contaminated clothing immediately.
- If inhaled : If symptoms persist, call a physician.
- In case of skin contact : Wash off immediately with plenty of water.  
If symptoms persist, call a physician.
- In case of eye contact : In the case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
- If swallowed : Rinse mouth with water.  
Give small amounts of water to drink.  
Consult a physician if necessary.

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

- Symptoms : Treat symptomatically.

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Risks : Causes skin irritation.  
Causes serious eye damage.  
  
Causes skin irritation.  
Causes serious eye damage.

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

Treatment : For specialist advice physicians should contact the Poisons  
Information Service.

## **SECTION 5: Firefighting measures**

### **5.1 Extinguishing media**

Suitable extinguishing media : Dry powder  
Foam  
Water spray jet  
Carbon dioxide (CO<sub>2</sub>)

Unsuitable extinguishing media : Do NOT use water jet.

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

Specific hazards during fire-fighting : No information available.

Hazardous combustion products : No hazardous combustion products are known

### **5.3 Advice for firefighters**

Special protective equipment for firefighters : In the event of fire, wear self-contained breathing apparatus.

## **SECTION 6: Accidental release measures**

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

Personal precautions : Ensure adequate ventilation.  
Use personal protective equipment.

### **6.2 Environmental precautions**

Environmental precautions : Do not flush into surface water or sanitary sewer system.

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

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).  
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

### **6.4 Reference to other sections**

see Section 8 + 13

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### **SECTION 7: Handling and storage**

#### **7.1 Precautions for safe handling**

Advice on safe handling : Never mix concentrates directly.  
Advice on protection against fire and explosion : No special protective measures against fire required. The product is not flammable.

Hygiene measures : Keep away from food and drink.

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

Requirements for storage areas and containers : Store at room temperature in the original container.

Further information on storage conditions : Keep away from heat. Keep away from direct sunlight. Keep container tightly closed. Recommended storage temperature: 5 - 25°C

Advice on common storage : Do not store together with explosive, infectious and radioactive products.

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

Specific use(s) : none

### **SECTION 8: Exposure controls/personal protection**

#### **8.1 Control parameters**

##### **Occupational Exposure Limits**

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
propane-1,2-diol	57-55-6	TWA (particles)	10 mg/m <sup>3</sup>	GB EH40
		TWA (Total vapour and particles)	150 ppm 474 mg/m <sup>3</sup>	GB EH40

##### **Derived No Effect Level (DNEL):**

Substance name	End Use	Exposure routes	Potential health effects	Value
propane-1,2-diol	Workers	Inhalation	Long-term systemic effects	168 mg/m <sup>3</sup>
	Workers	Inhalation	Long-term local effects	10 mg/m <sup>3</sup>
dimethyldioctylammonium chloride	Workers	Inhalation	Long-term systemic effects	18.79 mg/m <sup>3</sup>
	Workers	Dermal	Long-term systemic effects	2.67 mg/kg
1-phenoxypropan-2-ol	Workers	Inhalation	Long-term systemic effects	25.7 mg/m <sup>3</sup>
	Workers	Skin contact	Long-term systemic effects	42 mg/kg

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### Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
propane-1,2-diol	Fresh water	260 mg/l
	Marine water	26 mg/l
	Intermittent use/release	183 mg/l
	Sewage treatment plant	20000 mg/l
	Fresh water sediment	572 mg/kg
	Marine sediment	57.2 mg/kg
	Soil	50 mg/kg
dimethyldioctylammonium chloride	Fresh water	0.001 mg/l
	Marine water	0.00001 mg/l
	Sewage treatment plant	0.5 mg/l
1-phenoxypropan-2-ol	Fresh water	0.1 mg/l
	Marine water	0.01 mg/l
	Fresh water sediment	0.38 mg/kg
	Marine sediment	0.038 mg/kg
	Soil	0.02 mg/kg
	Effects on waste water treatment plants	10 mg/l

## 8.2 Exposure controls

### Personal protective equipment

Eye/face protection : Safety glasses with side-shields conforming to EN166

Hand protection  
Directive : The selected protective gloves have to satisfy the specifications of Regulation (EU) 2016/425 and the standard EN 374 derived from it.

Remarks : Splash protection: disposable nitrile rubber gloves e.g. Dermatril (layer thickness: 0.11 mm) made by KCL or gloves from other manufacturers offering the same protection. Prolonged contact: Nitrile rubber gloves e.g. Camatril (>480 Min., layer thickness: 0.40 mm) or butyl rubber gloves e.g. Butoject (>480 Min., layer thickness: 0.70 mm) made by KCL or gloves from other manufacturers offering the same protection.

Skin and body protection : Work uniform or laboratory coat.

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : Avoid contact with skin and eyes.

## SECTION 9: Physical and chemical properties

### 9.1 Information on basic physical and chemical properties

Appearance : liquid  
Colour : colourless  
Odour : characteristic  
Odour Threshold : not determined  
  
pH : 6 (20 °C)  
Concentration: 100 %

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Melting point/freezing point	:	< -5 °C
Decomposition temperature	:	No data available
Boiling point/boiling range	:	> 100 °C
Flash point	:	> 100 °C Method: ISO 2719
Evaporation rate	:	No data available
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	ca. 25 hPa (20 °C)
Relative vapour density	:	No data available
Density	:	ca. 1.00 g/cm <sup>3</sup> (20 °C)
Solubility(ies)		
Water solubility	:	completely soluble (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable
Auto-ignition temperature	:	No data available
Viscosity		
Viscosity, dynamic	:	No data available
Viscosity, kinematic	:	not determined
Flow time	:	< 15 s at 20 °C Method: DIN 53211
Explosive properties	:	No data available
Oxidizing properties	:	The substance or mixture is not classified as oxidizing.

### 9.2 Other information

Flammability (liquids)	:	Does not sustain combustion.
Metal corrosion rate	:	Not corrosive to metals

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## SECTION 10: Stability and reactivity

### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

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### **10.2 Chemical stability**

The product is chemically stable.

### **10.3 Possibility of hazardous reactions**

Hazardous reactions : None reasonably foreseeable.

### **10.4 Conditions to avoid**

Conditions to avoid : Protect from frost, heat and sunlight.

### **10.5 Incompatible materials**

Materials to avoid : No data available

### **10.6 Hazardous decomposition products**

None reasonably foreseeable.

## **SECTION 11: Toxicological information**

### **11.1 Information on toxicological effects**

#### **Acute toxicity**

Not classified based on available information.

Not classified based on available information.

#### **Product:**

Acute oral toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 2,000 mg/kg  
Method: Calculation method

#### **Components:**

##### **dimethyldioctylammonium chloride:**

Acute oral toxicity : LD50 (Rat): 238 mg/kg  
Method: OECD Test Guideline 401  
Assessment: Toxic if swallowed.  
Remarks: The toxicological data has been taken from products of similar composition.

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : LD50 (Rabbit, male and female): 191 mg/kg  
Method: OECD Test Guideline 434  
Assessment: Fatal in contact with skin.

##### **Alcohols, C12-15, ethoxylated propoxylated:**

Acute oral toxicity : (Rat): > 5,000 mg/kg

Acute inhalation toxicity : Remarks: No data available

Acute dermal toxicity : Remarks: No data available

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### **1-phenoxypropan-2-ol:**

Acute oral toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	: LC50 (Rat): > 5.4 mg/l Exposure time: 4 h Test atmosphere: dust/mist Method: OECD Test Guideline 403
Acute dermal toxicity	: LD50 (Rat): > 2,000 mg/kg Method: OECD Test Guideline 402

### **propane-1,2-diol:**

Acute oral toxicity	: LD50 Oral (Rat): > 20,000 mg/kg
Acute inhalation toxicity	: LC50 (Rabbit): 317.042 mg/l Exposure time: 2 h Test atmosphere: dust/mist
Acute dermal toxicity	: LD50 (Rabbit): > 2,000 mg/kg

### **Skin corrosion/irritation**

Causes skin irritation.  
Causes skin irritation.

### **Product:**

Remarks : Causes skin irritation.

### **Components:**

#### **dimethyldioctylammonium chloride:**

Species	: Rabbit
Exposure time	: 3 MIN
Method	: OECD Test Guideline 404
Result	: Corrosive after 3 minutes to 1 hour of exposure
GLP	: yes

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Species	: Rabbit
Result	: slight irritation

### **1-phenoxypropan-2-ol:**

Species	: Rabbit
Method	: OECD Test Guideline 404
Result	: No skin irritation

### **propane-1,2-diol:**

Result	: No skin irritation
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### **Serious eye damage/eye irritation**

Causes serious eye damage.

Causes serious eye damage.

### **Product:**

Remarks : Causes serious eye damage.

### **Components:**

#### **dimethyldioctylammonium chloride:**

Species : Rabbit  
Exposure time : 1 s  
Method : OECD Test Guideline 405  
Result : Corrosive  
GLP : yes  
Remarks : The toxicological data has been taken from products of similar composition.

#### **1-phenoxypropan-2-ol:**

Species : Rabbit  
Method : OECD Test Guideline 405  
Result : Eye irritation

#### **propane-1,2-diol:**

Result : Mildly irritant - does not need to be labelled

### **Respiratory or skin sensitisation**

#### **Skin sensitisation**

Not classified based on available information.

#### **Skin sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

#### **Respiratory sensitisation**

Not classified based on available information.

### **Components:**

#### **dimethyldioctylammonium chloride:**

Remarks : No data available

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Remarks : No data available

#### **1-phenoxypropan-2-ol:**

Species : Guinea pig  
Method : OECD Test Guideline 406

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||Result : Not a skin sensitizer.

### **propane-1,2-diol:**

||Result : Does not cause skin sensitisation.

### **Germ cell mutagenicity**

Not classified based on available information.

Not classified based on available information.

### **Components:**

#### **dimethyldioctylammonium chloride:**

||Genotoxicity in vitro : Test Type: Ames test  
Test system: Salmonella typhimurium  
Metabolic activation: Metabolic activation  
Method: OECD Test Guideline 471  
Result: Non mutagenic  
GLP: yes  
Remarks: The toxicological data has been taken from products of similar composition.

||Germ cell mutagenicity- Assessment : Not mutagenic in Ames Test

#### **Alcohols, C12-15, ethoxylated propoxylated:**

||Germ cell mutagenicity- Assessment : No data available

#### **1-phenoxypropan-2-ol:**

||Genotoxicity in vitro : Test Type: Microbial mutagenesis assay (Ames test)  
Method: OECD Test Guideline 471  
Result: negative

||Genotoxicity in vivo : Test Type: Micronucleus test  
Species: Mouse  
Method: OECD Test Guideline 474  
Result: negative

### **propane-1,2-diol:**

||Germ cell mutagenicity- Assessment : Non mutagenic

### **Carcinogenicity**

Not classified based on available information.

Not classified based on available information.

### **Components:**

#### **dimethyldioctylammonium chloride:**

||Species : Mouse, male and female  
||Application Route : Oral  
||Dose : 0-100-500-1000 parts per million  
||Frequency of Treatment : täglich  
||NOAEL : 76.3 mg/kg bw/day

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Method : OECD Test Guideline 451  
GLP : yes  
Remarks : The toxicological data has been taken from products of similar composition.

Carcinogenicity - Assessment : Based on available data, the classification criteria are not met.

### **Alcohols, C12-15, ethoxylated propoxylated:**

Carcinogenicity - Assessment : No data available

### **1-phenoxypropan-2-ol:**

Remarks : This information is not available.

### **propane-1,2-diol:**

Result : negative

Carcinogenicity - Assessment : Animal testing did not show any carcinogenic effects.

### **Reproductive toxicity**

Not classified based on available information.

Not classified based on available information.

### **Components:**

#### **dimethyldioctylammonium chloride:**

Effects on fertility : Species: Rat, male and female  
Application Route: Ingestion  
Dose: 0-300-750-1500 parts per million  
Method: OECD Test Guideline 416  
Result: No effects on fertility and early embryonic development were detected.  
Remarks: The toxicological data has been taken from products of similar composition.

Reproductive toxicity - Assessment : Based on available data, the classification criteria are not met.

### **Alcohols, C12-15, ethoxylated propoxylated:**

Reproductive toxicity - Assessment : No data available

### **1-phenoxypropan-2-ol:**

Effects on fertility : Test Type: Two-generation study  
Species: Rat  
Application Route: Oral  
General Toxicity - Parent: NOAEL: 477.5 mg/kg bw/day  
Method: OECD Test Guideline 416  
Result: Animal testing did not show any effects on fertility.

Effects on foetal development : Species: Rat  
Application Route: Oral  
General Toxicity Maternal: NOAEL: 180 mg/kg bw/day

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Developmental Toxicity: NOAEL: 180 mg/kg bw/day  
Method: OECD Test Guideline 414  
Result: No effects on fertility and early embryonic development were detected.

### **propane-1,2-diol:**

Reproductive toxicity - Assessment : Did not show carcinogenic or teratogenic effects in animal experiments.

### **STOT - single exposure**

Not classified based on available information.  
Not classified based on available information.

### **Components:**

#### **dimethyldioctylammonium chloride:**

Remarks : No data available

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Remarks : No data available

#### **1-phenoxypropan-2-ol:**

Remarks : No data available

### **propane-1,2-diol:**

Assessment : Not classified based on available information.

### **STOT - repeated exposure**

Not classified based on available information.  
Not classified based on available information.

### **Components:**

#### **dimethyldioctylammonium chloride:**

Remarks : No data available

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Remarks : No data available

#### **1-phenoxypropan-2-ol:**

Remarks : No data available

### **Repeated dose toxicity**

### **Components:**

#### **dimethyldioctylammonium chloride:**

Species : Rat, male and female  
NOAEL : 37 mg/kg

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Application Route	: Oral
Exposure time	: 13 Weeks
Dose	: 0-100-300-600-1000-3000
Method	: OECD Test Guideline 408
Remarks	: Based on data from similar materials

### **Aspiration toxicity**

Not classified based on available information.

Not classified based on available information.

### **Components:**

#### **propane-1,2-diol:**

|| No aspiration toxicity classification

### **Further information**

#### **Product:**

Remarks : No human information is available.

## **SECTION 12: Ecological information**

### **12.1 Toxicity**

#### **Components:**

##### **dimethyldioctylammonium chloride:**

Toxicity to fish	: LC50 (Oncorhynchus mykiss): 0.35 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: Remarks: No data available
Toxicity to algae/aquatic plants	: NOEC (Pseudokirchneriella subcapitata (green algae)): 0.01 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201 GLP: yes
M-Factor (Acute aquatic toxicity)	: 1
M-Factor (Chronic aquatic toxicity)	: 10

##### **Alcohols, C12-15, ethoxylated propoxylated:**

Toxicity to fish	: LC50 (Oncorhynchus mykiss): 0.61 - 0.75 mg/l Exposure time: 96 h Test Type: static test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna): 0.17 - 0.25 mg/l Exposure time: 48 h

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Test Type: static test

M-Factor (Acute aquatic toxicity) : 1

Toxicity to microorganisms :  
Remarks: No data available

### **1-phenoxypropan-2-ol:**

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 280 mg/l  
Exposure time: 96 h  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Daphnia magna (Water flea)): 370 mg/l  
Exposure time: 48 h  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Desmodesmus subspicatus (green algae)): > 100 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

ErC10 (Desmodesmus subspicatus (green algae)): 55.5 mg/l  
Exposure time: 72 h  
Method: OECD Test Guideline 201

### **propane-1,2-diol:**

Toxicity to fish : LC50 (Oncorhynchus mykiss): 40,613 mg/l  
Exposure time: 96 h  
Test Type: static test  
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : LC50 (Ceriodaphnia dubia (water flea)): 18,340 mg/l  
Exposure time: 48 h  
Test Type: static test  
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 (Pseudokirchneriella subcapitata (green algae)): 19,000 mg/l  
Exposure time: 96 h  
Test Type: Growth inhibition  
Method: OECD Test Guideline 201

Toxicity to microorganisms : NOEC (Pseudomonas putida): > 20,000 mg/l  
Exposure time: 18 h

Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 13,020 mg/l  
Exposure time: 7 d  
Species: Ceriodaphnia dubia (water flea)

## **12.2 Persistence and degradability**

### **Product:**

Chemical Oxygen Demand : 3,700 mg/l

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(COD)

Test substance: 1 % solution

### **Components:**

#### **dimethyldioctylammonium chloride:**

Biodegradability : Result: rapidly biodegradable  
Biodegradation: 73 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301  
Remarks: The 10 day time window criterion is not fulfilled.

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Biodegradability : Result: Biodegradable  
Biodegradation: 29 %  
Method: OECD Test Guideline 301C

#### **1-phenoxypropan-2-ol:**

Biodegradability : Result: Readily biodegradable.  
Biodegradation: 72 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F

#### **propane-1,2-diol:**

Biodegradability : Result: Readily biodegradable, according to appropriate  
OECD test.  
Biodegradation: 81 %  
Exposure time: 28 d  
Method: OECD Test Guideline 301F  
  
Result: Readily biodegradable, according to appropriate  
OECD test.  
Biodegradation: 96 %  
Exposure time: 64 d  
Method: OECD Test Guideline 306

## **12.3 Bioaccumulative potential**

### **Components:**

#### **dimethyldioctylammonium chloride:**

Bioaccumulation : Remarks: Bioaccumulation is unlikely.

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Bioaccumulation : Remarks: No data available

#### **1-phenoxypropan-2-ol:**

Partition coefficient: n-  
octanol/water : log Pow: 1.41 (24.1 °C)  
Method: OECD Test Guideline 107

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### **propane-1,2-diol:**

Bioaccumulation	:	Bioconcentration factor (BCF): 0.09 Remarks: No bioaccumulation is to be expected (log Pow <= 4).
Partition coefficient: n-octanol/water	:	log Pow: -1.07

## **12.4 Mobility in soil**

### **Components:**

#### **Alcohols, C12-15, ethoxylated propoxylated:**

Mobility	:	Remarks: No data available
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### **propane-1,2-diol:**

Mobility	:	Medium: Soil Remarks: Mobile in soils
Distribution among environmental compartments	:	Koc: < 1

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

### **Product:**

Assessment	:	This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.
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### **Components:**

#### **dimethyldioctylammonium chloride:**

Assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).
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### **propane-1,2-diol:**

Assessment	:	This substance is not considered to be persistent, bioaccumulating and toxic (PBT).. This substance is not considered to be very persistent and very bioaccumulating (vPvB).
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## **12.6 Other adverse effects**

### **Product:**

Endocrine disrupting potential	:	The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher. The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation
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Additional ecological information : (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.  
: No data is available on the product itself.

## **SECTION 13: Disposal considerations**

### **13.1 Waste treatment methods**

Product : Disposal together with normal waste is not allowed. Special disposal required according to local regulations.

Contaminated packaging : Empty containers should be taken to an approved waste handling site for recycling or disposal.

## **SECTION 14: Transport information**

### **14.1 UN number**

ADR : UN 3082

IMDG : UN 3082

IATA : UN 3082

### **14.2 UN proper shipping name**

ADR : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(dimethyldioctylammonium chloride)

IMDG : ENVIRONMENTALLY HAZARDOUS SUBSTANCE, LIQUID, N.O.S.  
(dimethyldioctylammonium chloride)

IATA : Environmentally hazardous substance, liquid, n.o.s.  
(dimethyldioctylammonium chloride)

### **14.3 Transport hazard class(es)**

	Class	Subsidiary risks
ADR	: 9	
IMDG	: 9	
IATA	: 9	

### **14.4 Packing group**

ADR

Packing group : III

Classification Code : M6

Hazard Identification Number : 90

Labels : 9

Tunnel restriction code : (-)

IMDG

Packing group : III

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Labels : 9  
EmS Code : F-A, S-F

### **IATA (Cargo)**

Packing instruction (cargo aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

### **IATA (Passenger)**

Packing instruction (passenger aircraft) : 964  
Packing instruction (LQ) : Y964  
Packing group : III  
Labels : Miscellaneous

## **14.5 Environmental hazards**

### **ADR**

Environmentally hazardous : yes

### **IMDG**

Marine pollutant : yes

## **14.6 Special precautions for user**

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

## **14.7 Transport in bulk according to Annex II of Marpol and the IBC Code**

Not applicable for product as supplied.

## **SECTION 15: Regulatory information**

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17) : Conditions of restriction for the following entries should be considered: Number on list 3

UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation : Not applicable

The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain) : Not applicable

Regulation (EC) on substances that deplete the ozone layer : Not applicable

UK REACH List of substances subject to authorisation (Annex XIV) : Not applicable

Volatile organic compounds : Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control)  
Volatile organic compounds (VOC) content: 1 %

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according to Detergents                    : < 5%: Non-ionic surfactants  
Regulation EC 648/2004                 Other constituents: Disinfectants

### **The components of this product are reported in the following inventories:**

TCSI     : On the inventory, or in compliance with the inventory

TSCA     : All substances listed as active on the TSCA inventory

AIIC     : On the inventory, or in compliance with the inventory

DSL     : All components of this product are on the Canadian DSL

  

ENCS     : Not in compliance with the inventory

ISHL     : Not in compliance with the inventory

KECI     : On the inventory, or in compliance with the inventory

PICCS    : On the inventory, or in compliance with the inventory

IECSC    : On the inventory, or in compliance with the inventory

NZIoC    : Not in compliance with the inventory

TECI    : On the inventory, or in compliance with the inventory

### **15.2 Chemical safety assessment**

**||** No Chemical Safety Assessment has been carried out for this mixture.

## **SECTION 16: Other information**

### **Full text of H-Statements**

H301     : Toxic if swallowed.

H310     : Fatal in contact with skin.

H314     : Causes severe skin burns and eye damage.

H318     : Causes serious eye damage.

H319     : Causes serious eye irritation.

H400     : Very toxic to aquatic life.

H410     : Very toxic to aquatic life with long lasting effects.

### **Full text of other abbreviations**

Acute Tox.                                         : Acute toxicity

Aquatic Acute                                    : Short-term (acute) aquatic hazard

Aquatic Chronic                                 : Long-term (chronic) aquatic hazard

Eye Dam.                                         : Serious eye damage

Eye Irrit.                                         : Eye irritation

Skin Corr.                                         : Skin corrosion

GB EH40                                         : UK. EH40 WEL - Workplace Exposure Limits

GB EH40 / TWA                                 : Long-term exposure limit (8-hour TWA reference period)

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ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; ECx - Concentration associated with x% response; ELx - Loading rate associated with x% response; EmS - Emergency Schedule; ENCS - Existing and New Chemical Substances (Japan); ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IARC - International Agency for Research on Cancer; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; ICAO - International Civil Aviation Organization; IECSC - Inventory of Existing Chemical Substances in China; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; ISHL - Industrial Safety and Health Law (Japan); ISO - International Organisation for Standardization; KECI - Korea Existing Chemicals Inventory; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - Not Otherwise Specified; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NZIoC - New Zealand Inventory of Chemicals; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; PBT - Persistent, Bioaccumulative and Toxic substance; PICCS - Philippines Inventory of Chemicals and Chemical Substances; (Q)SAR - (Quantitative) Structure Activity Relationship; REACH - Regulation (EC) No 1907/2006 of the European Parliament and of the Council concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; TECI - Thailand Existing Chemicals Inventory; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods; vPvB - Very Persistent and Very Bioaccumulative

### **Further information**

#### **Classification of the mixture:**

Skin Irrit. 2	H315
Eye Dam. 1	H318
Aquatic Chronic 1	H410
Aquatic Chronic 1	H410

#### **Classification procedure:**

Calculation method
Calculation method
Calculation method
Calculation method

Changes since the last version are highlighted in the margin. This version replaces all previous versions.

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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