on the basis of Regulation (EC) No. 1907/2006



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

1.1 Product identifier

Trade name : octenilin® wound irrigation solution

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

Use of the Sub- : Medical device

stance/Mixture

Recommended restrictions

on use

1.3 Details of the supplier of the safety data sheet

Manufacturer/ Supplier : Schülke & Mayr GmbH

Robert-Koch-Str. 2

22851 Norderstedt

Germany

Telephone: +49 (0)40/ 52100-0 Telefax: +49 (0)40/ 52100318

Restricted to professional users.

mail@schuelke.com www.schuelke.com

E-mail address of person : Application Department responsible for the +49 (0)40/ 521 00 8800

SDS/Contact person ApplicationDepartment.SM@schuelke.com

(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

Emergency telephone num: UK Poisons Emergency number: 0870 600 6266

ber

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

#### 2.1 Classification of the substance or mixture

## Classification (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

## 2.2 Label elements

#### Labelling (REGULATION (EC) No 1272/2008)

Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008.

#### 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.

No special risks known.



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## **SECTION 3: Composition/information on ingredients**

#### 3.2 Mixtures

Chemical nature Aqueous solution

#### **Hazardous components**

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
N,N'-(decane-1,10-diyldi-1(4H)- pyridyl-4-ylidene) bis(octylammonium) dichloride	70775-75-6 274-861-8  01-2120750372-60- 0000	Acute Tox. 4; H302 Skin Irrit. 2; H315 Eye Irrit. 2; H319 Aquatic Acute 1; H400 Aquatic Chronic 1; H410	< 0,1

For explanation of abbreviations see section 16.

#### **SECTION 4: First aid measures**

#### 4.1 Description of first aid measures

In case of eye contact Flush eyes with water as a precaution.

If eye irritation persists, consult a specialist.

If swallowed Do NOT induce vomiting.

Drink water as a precaution. Consult a physician if necessary.

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

**Symptoms** Treat symptomatically.

#### 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 (CO2)

Jnsuitable extinguishing Do not use a solid water stream as it may scatter and spread



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5.2 Special hazards arising from the substance or mixture

Specific hazards during fire-

fighting

: No information available.

5.3 Advice for firefighters

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

for firefighters

**SECTION 6: Accidental release measures** 

6.1 Personal precautions, protective equipment and emergency procedures

Personal precautions No special precautions required.

6.2 Environmental precautions

Environmental precautions : Avoid subsoil penetration.

6.3 Methods and material for containment and cleaning up

Methods for cleaning up : Wipe up with absorbent material (e.g. cloth, fleece).

6.4 Reference to other sections

See chapter 13

**SECTION 7: Handling and storage** 

7.1 Precautions for safe handling

Advice on safe handling not required under normal use

Advice on protection against :

fire and explosion

No special protective measures against fire required.

Hygiene measures Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers

Further information on stor-

age conditions

: Store at room temperature in the original container.

: Keep away from direct sunlight. Do not store at temperatures

above 30°C.

: No materials to be especially mentioned. Advice on common storage

7.3 Specific end use(s)

Specific use(s) : none



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

## 8.1 Control parameters

none

#### 8.2 Exposure controls

#### Personal protective equipment

Protective measures : No special precautions required.

## **SECTION 9: Physical and chemical properties**

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

Appearance : liquid

Colour : colourless

Odour : nearly odourless

Odour Threshold : not determined

pH : ca. 5,4 (20 °C)

Melting point/freezing point : ca. 0 °C

Boiling point/boiling range : ca. 100 °C

Flash point : Not applicable

Evaporation rate : No data available

Flammability (solid, gas) : Not applicable Upper explosion limit : No data available

Lower explosion limit : No data available

Vapour pressure : ca. 25 hPa (20 °C)

similar to water

Vapour density : No data available

Relative density : ca. 1,0 g/cm3 (20 °C)

Solubility(ies)

Water solubility : in all proportions (20 °C)

Partition coefficient: n-

octanol/water

Not applicable

Auto-ignition temperature : No data available

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Viscosity

Viscosity, dynamic : No data available

Explosive properties : No data available

Oxidizing properties : No data available

#### 9.2 Other information

No data available

## **SECTION 10: Stability and reactivity**

#### 10.1 Reactivity

No dangerous reaction known under conditions of normal use.

#### 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 : Do not store at temperatures above 30°C.

#### 10.5 Incompatible materials

Materials to avoid : Never mix concentrates directly.

#### 10.6 Hazardous decomposition products

None reasonably foreseeable.

#### **SECTION 11: Toxicological information**

## 11.1 Information on toxicological effects

## **Acute toxicity**

#### **Product:**

Acute oral toxicity : This information is not available.

## **Components:**

## N,N'-(decane-1,10-diyldi-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:

Acute inhalation toxicity : LC50 (Rat): > 4,0 mg/l, 4 h, OECD Test Guideline 403, 0,1 %

solution

Acute dermal toxicity : No data available

Acute toxicity (other routes of : LD50 intravenous (Rat): 10 mg/kg, OECD Test Guideline 401

administration)

## Skin corrosion/irritation

#### **Product:**

No skin irritation



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## Serious eye damage/eye irritation

#### **Product:**

Contact with eyes may cause irritation.

#### Respiratory or skin sensitisation

#### **Product:**

Contains no substance or substances classified as sensitising. , May cause sensitisation of susceptible persons by skin contact.

## Germ cell mutagenicity

#### **Product:**

Germ cell mutagenicity- As-

sessment

: Contains no ingredient listed as a mutagen

## Carcinogenicity

#### **Product:**

Carcinogenicity - Assess-

ment

: Contains no ingredient listed as a carcinogen

#### Reproductive toxicity

#### Product:

Reproductive toxicity - As-

sessment

: Contains no ingredient listed as toxic to reproduction

#### STOT - single exposure

## **Components:**

#### N,N'-(decane-1,10-diyldi-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:

No data available

## STOT - repeated exposure

#### **Components:**

# N,N'-(decane-1,10-diyldi-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:

No data available

#### Repeated dose toxicity

#### Components:

# **∐N,N'-(decane-1,10-diyldi-1(4H)-pyridyl-4-ylidene)** bis(octylammonium) dichloride:

Rat, NOAEL: 32 mg/kg, Oral, OECD Test Guideline, 408

## **Aspiration toxicity**

No data available

#### **Further information**

## **Product:**

No data is available on the product itself.



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## **SECTION 12: Ecological information**

## 12.1 Toxicity

## **Product:**

**Ecotoxicology Assessment** 

Short-term (acute) aquatic

hazard

: This product has no known ecotoxicological effects.

#### Components:

N,N'-(decane-1,10-diyldi-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:

Toxicity to fish LC50 (Brachydanio rerio (zebrafish)): 0,17 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

aquatic invertebrates

Toxicity to daphnia and other : EC50 (Daphnia magna (Water flea)): 0,007 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae EC50 (Desmodesmus subspicatus (green algae)): 0,034 mg/l

Exposure time: 72 h

Method: OECD Test Guideline 201

M-Factor (Short-term (acute) :

aquatic hazard)

100

EC50 (activated sludge): 2,77 mg/l Toxicity to microorganisms

Exposure time: 3 h

Method: OECD Test Guideline 209

Toxicity to daphnia and other: aquatic invertebrates (Chron-

ic toxicity)

NOEC: 0,0056 mg/l Exposure time: 21 d

Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211

M-Factor (Long-term (chron- :

ic) aquatic hazard)

10

Toxicity to soil dwelling or-

ganisms

LC50: > 1.000 mg/kg

Species: Eisenia fetida (earthworms) Method: OECD Test Guideline 207

Plant toxicity LC50: > 1.000 mg/kg

> Species: Lactuca sativa (lettuce) Method: OECD Test Guideline 208

Toxicity to terrestrial organ-

isms

: EC50: > 1.000 mg/kg

Method: OECD Test Guideline 216

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#### 12.2 Persistence and degradability

**Product:** 

Biodegradability : Remarks: Not applicable

**Components:** 

N,N'-(decane-1,10-diyldi-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:

Biodegradability : Result: Not biodegradable

Method: OECD 301D / EEC 84/449 C6

12.3 Bioaccumulative potential

**Components:** 

N,N'-(decane-1,10-diyldi-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <=

4).

Partition coefficient: n- : log Pow: 1,5 (23 °C)

octanol/water Method: OECD Test Guideline 123

12.4 Mobility in soil

**Product:** 

Mobility : Remarks: No data available

**Components:** 

N,N'-(decane-1,10-diyldi-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:

Mobility : Remarks: Adsorbs on soil.

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...

12.6 Other adverse effects

**Product:** 

Additional ecological infor-

: No data is available on the product itself.

mation

**SECTION 13: Disposal considerations** 

13.1 Waste treatment methods

Product : Dispose of the product according to the defined EWC (Euro-

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pean Waste Code) No.

Contaminated packaging : Take empty packaging to the recycling plant.

Waste key for the unused

product

: European waste catalog (EWC) 070601

Waste key for the unused : Waste r

product(Group)

: Waste material of HZVA from fats, lubricants, soaps, detergents, disinfectants and personal protection products.

## **SECTION 14: Transport information**

#### 14.1 UN number

IMDG : -

#### 14.2 UN proper shipping name

IMDG : -

#### 14.3 Transport hazard class(es)

IMDG : -

## 14.4 Packing group

## **IMDG**

Packing group : -

## IATA (Cargo)

Packing group : -

# IATA (Passenger)

Packing group : -

#### 14.5 Environmental hazards

#### **IMDG**

Marine pollutant : no

#### 14.6 Special precautions for user

Not applicable

For personal protection see section 8.

## 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

REACH - Candidate List of Substances of Very High : Not applicable

Concern for Authorisation (Article 59).



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Regulation (EC) No 850/2004 on persistent organic pol- : Not applicable

lutants

Seveso III: Directive 2012/18/EU of the European Parliament and of the Council on the control of major-accident hazards involving dangerous substances.

Not applicable

Volatile organic compounds : Remarks: none, Directive 2010/75/EC on the limitation of

emissions of volatile organic compounds

## Other regulations:

Take note of Directive 98/24/EC on the protection of the health and safety of workers from the risks related to chemical agents at work.

Take note of Directive 2000/39/EC establishing a first list of indicative occupational exposure limit values.

#### 15.2 Chemical safety assessment

Exempt

#### **SECTION 16: Other information**

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

H302 : Harmful if swallowed. H315 : Causes skin irritation.

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 Irrit. : Eye irritation Skin Irrit. : Skin irritation

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - European Agreement concerning the International Carriage of Dangerous Goods by Road; AICS - Australian Inventory of Chemical Substances; 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



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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; TRGS - Technical Rule for Hazardous Substances; TSCA - Toxic Substances Control Act (United States); UN - United Nations; vPvB - Very Persistent and Very Bioaccumulative

#### **Further information**

Changes compared with the previous edition!!!

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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