

octenidol® **No Change Service!**

Version
04.00

Revision Date:
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Date of first issue: 16.10.2018

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

1.1 Product identifier

Trade name : octenidol®

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

Use of the Sub-
stance/Mixture : Cosmetics

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
mail@schuelke.com
www.schuelke.com

E-mail address of person
responsible for the
SDS/Contact person : Application Department
+49 (0)40/ 521 00 8800
ApplicationDepartment.SM@schuelke.com
(Schülke & Mayr UK Ltd.: +44-1142543500)

1.4 Emergency telephone number

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

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)

The product falls under the cosmetics directive and therefore does not need to be labelled., 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.

Contact with eyes may cause irritation.

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Chemical nature : Aqueous solution

Components

Chemical name	CAS-No. EC-No. Index-No. Registration number	Classification	Concentration (% w/w)
N,N'-(decane-1,10-diyl-di-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; M = 100 Aquatic Chronic 1; H410; M = 10	<= 0,1

For explanation of abbreviations see section 16.

SECTION 4: First aid measures**4.1 Description of first aid measures**

If inhaled : If symptoms persist, call a physician.

In case of skin contact : If symptoms persist, call a physician.

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

If swallowed : No information available.

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)

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

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media

fire.

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 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 : Increased risk of slipping in the presence of leaked / spilled product.

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).
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

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.

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. Recommended storage temperature: 15 - 25°C

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

7.3 Specific end use(s)

Specific use(s) : none

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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	:	nearly colourless
Odour	:	mint-like
Odour Threshold	:	not determined
pH	:	ca. 4 (20 °C)
Melting point/freezing point	:	ca. 0 °C
Decomposition temperature	:	Not applicable
Boiling point/boiling range	:	ca. 100 °C
Flash point	:	> 100 °C Method: ISO 2719
Evaporation rate	:	No data available
Flammability (solid, gas)	:	Not applicable
Upper explosion limit / Upper flammability limit	:	Not applicable
Lower explosion limit / Lower flammability limit	:	Not applicable
Vapour pressure	:	No data available
Vapour density	:	No data available
Relative density	:	ca. 1,0 g/cm ³ (20 °C)
Solubility(ies)	:	
Water solubility	:	in all proportions (20 °C)
Partition coefficient: n-octanol/water	:	Not applicable

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Auto-ignition temperature : No data available

Viscosity
Viscosity, dynamic : not determined

Explosive properties : No data available

Oxidizing properties : Not applicable

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 known.

10.4 Conditions to avoid

Conditions to avoid : Keep at temperature not exceeding 25 °C.

10.5 Incompatible materials

Materials to avoid : None reasonably foreseeable.

10.6 Hazardous decomposition products

none

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Product:

Acute oral toxicity : Remarks: This information is not available.

Acute inhalation toxicity : Remarks: This information is not available.

Acute dermal toxicity : Remarks: This information is not available.

Components:

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

Acute oral toxicity : LD50 (Rat): > 800 mg/kg

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Remarks: Harmful if swallowed.Acute inhalation toxicity : LC50 (Rat): > 4,0 mg/l
Exposure time: 4 h
Method: OECD Test Guideline 403
Test substance: 0,1 % solution

Acute dermal toxicity : Remarks: No data available

Acute toxicity (other routes of administration) : LD50 intravenous (Rat): 10 mg/kg
Method: OECD Test Guideline 401**Skin corrosion/irritation****Product:**

Remarks : No skin irritation

Components:**N,N'-(decane-1,10-diyl-di-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:**Species : Rabbit
Method : OECD Test Guideline 404
Result : Irritating to skin.**Serious eye damage/eye irritation****Product:**

Remarks : Contact with eyes may cause irritation.

Components:**N,N'-(decane-1,10-diyl-di-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:**Species : Rabbit
Method : Read-across (Analogy)
Result : Irritating to eyes.**Respiratory or skin sensitisation****Product:**Assessment : Contains no substance or substances classified as sensitising.
Remarks : May cause sensitisation of susceptible persons.**Components:****N,N'-(decane-1,10-diyl-di-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:**Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

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Germ cell mutagenicity- Assessment : Contains no ingredient listed as a mutagen

Components:**N,N'-(decane-1,10-diyl-di-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:**Genotoxicity in vitro : Test Type: Ames test
Method: OECD Test Guideline 471
Result: Non mutagenic

Germ cell mutagenicity- Assessment : Tests on bacterial or mammalian cell cultures did not show mutagenic effects.

Carcinogenicity**Product:**

Carcinogenicity - Assessment : Contains no ingredient listed as a carcinogen

Components:**N,N'-(decane-1,10-diyl-di-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:**Species : Mouse
Application Route : Dermal exposure
Method : OECD Test Guideline 451
Remarks : Based on available data, the classification criteria are not met.

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

Reproductive toxicity**Product:**

Reproductive toxicity - Assessment : Contains no ingredient listed as toxic to reproduction

Components:**N,N'-(decane-1,10-diyl-di-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:**Effects on foetal development : Species: Rat
Application Route: Oral
Method: OECD Test Guideline 414
Remarks: Based on available data, the classification criteria are not met.

Reproductive toxicity - Assessment : No toxicity to reproduction

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Remarks : No data available

STOT - repeated exposure**Components:****N,N'-(decane-1,10-diyl-di-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:**

Remarks : No data available

Repeated dose toxicity**Components:****N,N'-(decane-1,10-diyl-di-1(4H)-pyridyl-4-ylidene) bis(octylammonium) dichloride:**

Species : Rat
 NOAEL : 32 mg/kg
 Application Route : Oral
 Method : OECD Test Guideline, 408

Aspiration toxicity

No data available

Further information**Product:**

Remarks : No data is available on the product itself.

SECTION 12: Ecological information**12.1 Toxicity****Product:****Ecotoxicology Assessment**

Acute aquatic toxicity : This product has no known ecotoxicological effects.

Components:**N,N'-(decane-1,10-diyl-di-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

Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 0,007 mg/l
 Exposure time: 48 h
 Method: OECD Test Guideline 202

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- Toxicity to algae : EC50 (Desmodesmus subspicatus (green algae)): 0,034 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- M-Factor (Acute aquatic toxicity) : 100
- Toxicity to microorganisms : EC50 (activated sludge): 2,77 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC: 0,0056 mg/l
Exposure time: 21 d
Species: Daphnia magna (Water flea)
Method: OECD Test Guideline 211
- M-Factor (Chronic aquatic toxicity) : 10
- Toxicity to soil dwelling organisms : 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 organisms : EC50: > 1.000 mg/kg
Method: OECD Test Guideline 216

12.2 Persistence and degradability

Product:

Biodegradability : Remarks: The methods for determining biodegradability are not applicable to inorganic substances.

Components:

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

Biodegradability : Result: Not biodegradable
Method: OECD 301D / EEC 84/449 C6

12.3 Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

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

Bioaccumulation : Remarks: No bioaccumulation is to be expected (log Pow <= 4).

Product information

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

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Partition coefficient: n-
octanol/water : log Pow: 1,5 (23 °C)
Method: OECD Test Guideline 123

12.4 Mobility in soil

Product:

Mobility : Remarks: No data available

Components:

N,N'-(decane-1,10-diyl-di-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 information : No data is available on the product itself.

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : Can be incinerated or landfilled together with household waste in compliance with the regulations, and after consultation with the waste disposal services.

Contaminated packaging : Take empty packaging to the recycling plant.

SECTION 14: Transport information

14.1 UN number

IMDG : -

IATA : -

14.2 UN proper shipping name

IMDG : -

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IATA : -

14.3 Transport hazard class(es)

IMDG : -

IATA : -

14.4 Packing groupIMDG
Packing group : -IATA (Cargo)
Packing group : -IATA (Passenger)
Packing group : -**14.5 Environmental hazards**IMDG
Marine pollutant : no**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.
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 Concern for Authorisation (Article 59) : Not applicable

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

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 : 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.

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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 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

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Further information

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

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