according to the Globally Harmonized System

# **Mikrobac Virucidal Tissues**

VersionRevision Date:SDS Number:Date of last issue: 05.04.20231.1226.02.2024R11860Date of first issue: 21.02.2018

#### 1. PRODUCT AND COMPANY IDENTIFICATION

Manufacturer or supplier's details

Manufacturer : BODE Chemie GmbH

Melanchthonstraße 27 22525 Hamburg (Germany) Tel.: +49 (0)40 / 54 00 60

Supplier : PAUL HARTMANN B.V.

Kerkenbos 11-03d NL-6500 AA Nijmegen

Netherlands

Tel.: +31 (0)24 711 2000

Responsible Department : algemeen@hartmann.info

Emergency telephone number : Nationaal Vergiftigingen Informatie Centrum (NVIC)

Rijksinstituut voor Volksgeszondheid en Milieu

Postbus 1, NL-3720 BA Bilthoven

Netherlands

24h-Phone +31 (0)88 755 8000

Recommended use of the chemical and restrictions on use

Recommended use : In-door use

Disinfectants and algaecides not intended for direct application to

humans or animals

For further information, refer to the product technical data sheet.

Restrictions on use : Restricted to professional users.

#### 2. HAZARDS IDENTIFICATION

**GHS Classification** 

Long-term (chronic) aquatic haz-

ard

Category 3

**GHS** label elements

Hazard pictograms : None
Signal word : None

Hazard statements : H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : Prevention:

P273 Avoid release to the environment.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal

plant.

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#### Other hazards which do not result in classification

None known.

### 3. COMPOSITION/INFORMATION ON INGREDIENTS

Substance / Mixture : Mixture

Chemical nature : Aqueous solution

## Components

Chemical name	CAS-No.	Concentration (% w/w)
Didecyldimethylammonium chloride	7173-51-5	>= 0,1 - < 0,25
Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18))	68391-01-5	>= 0,1 - < 0,25

# 4. FIRST AID MEASURES

General advice : If you feel unwell, seek medical advice (show the label where possi-

ble).

In case of skin contact : Wash off with soap and water.

In case of eye contact : Immediately flush eye(s) with plenty of water.

Most important symptoms and effects, both acute and delayed

None known.

Notes to physician : For specialist advice physicians should contact the Poisons Infor-

mation Service.

### 5. FIREFIGHTING MEASURES

Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon

dioxide.

Hazardous combustion products : No hazardous combustion products are known

Specific extinguishing methods : Standard procedure for chemical fires.

Special protective equipment for

firefighters

Use personal protective equipment.

In the event of fire, wear self-contained breathing apparatus.

# 6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures

Ensure adequate ventilation.

Environmental precautions : Should not be released into the environment.

Methods and materials for containment and cleaning up

Use mechanical handling equipment.

## 7. HANDLING AND STORAGE

Advice on safe handling : Avoid contact with eyes.

Conditions for safe storage : Store in original container.

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Keep tightly closed.

#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

### Components with workplace control parameters

Contains no substances with occupational exposure limit values.

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Hand protection

Nitrile rubber Material : Protective gloves complying with EN 374.

Break through time : 8 min
Glove thickness : 0,1 mm
Protective index : Class 6

Hygiene measures : Handle in accordance with good industrial hygiene and safety prac-

tice.

Keep away from food and drink.

#### 9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid absorbed by inert carrier material

Colour : colourless

Odour : slight

pH : ≥ 11,7 (20 °C)

Boiling point/boiling range : 100 °C

Flash point : does not flash

Density : 1 g/cm3 (20 °C)

Solubility(ies)

Water solubility : completely miscible

# 10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : The product is chemically stable.

Possibility of hazardous reactions : None reasonably foreseeable.

Conditions to avoid : Heat

Strong sunlight for prolonged periods.

Hazardous decomposition prod-

ucts

No hazardous decomposition products are known.

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### 11. TOXICOLOGICAL INFORMATION

#### **Acute toxicity**

Not classified based on available information.

**Product:** 

Acute oral toxicity : Acute toxicity estimate: > 5.000 mg/kg

Method: Calculation method

**Components:** 

Didecyldimethylammonium chloride (CAS: 7173-51-5):

Acute oral toxicity : LD50 Oral (Rat): 238 mg/kg

Acute dermal toxicity : LD50 Dermal (Rabbit): 3.342 mg/kg

Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):

Acute oral toxicity : LD50 (Rat): 344 mg/kg

Acute dermal toxicity : LD50 (Rabbit): 3.412 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Product:

Result : No skin irritation

Components:

Didecyldimethylammonium chloride (CAS: 7173-51-5):

Species : Rabbit Exposure time : 3 min

Method : OECD Test Guideline 404

Result : Corrosive after 3 minutes or less of exposure

Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):

Species : Rabbit

Result : Corrosive after 1 to 4 hours of exposure

Serious eye damage/eye irritation

Serious eye damage/eye irritation

Not classified based on available information.

Product:

Species : Chicken eye

Method : OECD Test Guideline 438

Result : No eye irritation

GLP : yes

**Components:** 

Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):

Species : Rabbit Result : Corrosive

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#### Respiratory or skin sensitisation

#### Skin sensitisation

Not classified based on available information.

### Respiratory sensitisation

Not classified based on available information.

#### **Components:**

## Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):

Test Type : Maximisation Test

Species : Guinea pig

Method : OECD Test Guideline 406

Result : Did not cause sensitisation on laboratory animals.

#### Germ cell mutagenicity

Not classified based on available information.

#### Carcinogenicity

Not classified based on available information.

#### Reproductive toxicity

Not classified based on available information.

#### STOT - single exposure

Not classified based on available information.

### STOT - repeated exposure

Not classified based on available information.

### Repeated dose toxicity

No data available

## **Aspiration toxicity**

Not classified based on available information.

#### **Experience with human exposure**

No data available

#### **Experience with human exposure**

No data available

### **Neurological effects**

No data available

### 12. ECOLOGICAL INFORMATION

## **Ecotoxicity**

## **Components:**

## Didecyldimethylammonium chloride (CAS: 7173-51-5):

Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 0,19 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,062 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : ErC50 ( Pseudokirchneriella subcapitata (green algae)): 0,026 mg/l

Exposure time: 72 h

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Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) 10

Toxicity to fish (Chronic toxicity) NOEC: 0,032 mg/l

Exposure time: 34 d

Species: Danio rerio (zebra fish) Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic

toxicity)

NOEC: 0,014 mg/l Exposure time: 21 d

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

# Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):

Toxicity to fish LC50 (Lepomis macrochirus (Bluegill sunfish)): 0,515 mg/l

Exposure time: 96 h

Method: OECD Test Guideline 203

Toxicity to daphnia and other

aquatic invertebrates

EC50 (Daphnia magna (Water flea)): 0,016 mg/l

Exposure time: 48 h

Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants EC50 (Pseudokirchneriella subcapitata (microalgae)): 0,049 mg/l

Exposure time: 72 h

Test Type: Cell multiplication inhibition test

Method: OECD Test Guideline 201

M-Factor (Acute aquatic toxicity) 10

Toxicity to fish (Chronic toxicity) NOEC: 0,032 mg/l

Exposure time: 34 d

Species: Leuciscus idus (Golden orfe) Method: OECD Test Guideline 210

Toxicity to daphnia and other aquatic invertebrates (Chronic

toxicity)

NOEC: 0,0042 mg/l Exposure time: 21 d

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

M-Factor (Chronic aquatic toxici:

ty)

### Persistence and degradability

### **Components:**

### Didecyldimethylammonium chloride (CAS: 7173-51-5):

Biodegradability Method: OECD Test Guideline 301B

Remarks: Readily biodegradable, according to appropriate OECD

test.

# Alkyl (C12-18) dimethylbenzyl ammonium chloride (ADBAC (C12-18)) (CAS: 68391-01-5):

Biodegradability Method: OECD Test Guideline 301B

Remarks: According to the results of tests of biodegradability this

product is considered as being readily biodegradable.

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### **Bioaccumulative potential**

### **Components:**

Didecyldimethylammonium chloride (CAS: 7173-51-5):

Partition coefficient: n-

octanol/water

: log Pow: 2,8 (20 °C)

### Mobility in soil

No data available

### Other adverse effects

**Product:** 

Adsorbed organic bound halo-

gens (AOX)

Remarks: Product does not contain any organic halogens.

## 13. DISPOSAL CONSIDERATIONS

**Disposal methods** 

Waste from residues : In accordance with local and national regulations.

Waste codes should be assigned by the user, preferably in discus-

sion with the waste disposal authorities.

Contaminated packaging : Empty remaining contents.

Store containers and offer for recycling of material when in accord-

ance with the local regulations.

## 14. TRANSPORT INFORMATION

#### **ADR**

Not regulated as a dangerous good

# UNRTDG

Not regulated as a dangerous good

## IATA-DGR

Not regulated as a dangerous good

# IMDG-Code

Not regulated as a dangerous good

# Transport in bulk according to IMO instruments

Not applicable for product as supplied.

## Special precautions for user

Not applicable

# 15. REGULATORY INFORMATION

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

# Other international regulations

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

TSCA : All substances listed as active on the TSCA inventory

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### **16. OTHER INFORMATION**

Revision Date : 26.02.2024

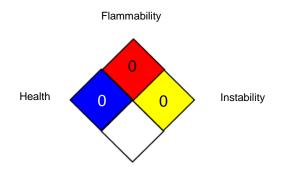
Date format : yyyy/mm/dd

# Safety datasheet sections which have been updated:

9. Physical and chemical properties

#### **Further information**

### NFPA:



Special hazard

#### HMIS® IV:



HMIS® ratings are based on a 0-4 rating scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. The "\*" represents a chronic hazard, while the "/" represents the absence of a chronic hazard.

### Full text of other abbreviations

AIIC - Australian Inventory of Industrial Chemicals; ANTT - National Agency for Transport by Land of Brazil; ASTM - American Society for the Testing of Materials; bw - Body weight; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); 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; ERG - Emergency Response Guide; 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; Nch - Chilean Norm; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; NOM - Official Mexican Norm; NTP - National Toxicology Program; 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; SADT - Self-

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Accelerating Decomposition Temperature; SDS - Safety Data Sheet; TCSI - Taiwan Chemical Substance Inventory; TDG - Transportation of Dangerous Goods; 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; WHMIS - Workplace Hazardous Materials Information System

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