

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

**1.1 Product identifier**

Trade name : Sterillium classic pure

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

Use of the Substance/Mixture : In-door use  
 Disinfectants and general biocidal products, For further information, refer to the product technical data sheet.

Recommended restrictions on use : Restricted to professional users.

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

Manufacturer, importer, supplier : BODE Chemie GmbH  
 Melanchthonstraße 27  
 22525 Hamburg  
 Tel.: +49 (0)40 / 54 00 60

Responsible Department : Scientific Affairs  
 KundenService-SiDa@bode-chemie.de

**1.4 Emergency telephone number**

Emergency telephone number : Giftnotruf Göttingen  
 24h-Phone +49 (0)551 / 1 92 40

**SECTION 2: Hazards identification**

**2.1 Classification of the substance or mixture**

**Classification (67/548/EEC, 1999/45/EC)**

Flammable R10: Flammable.  
 Irritant R36: Irritating to eyes.  
 R67: Vapours may cause drowsiness and dizziness.

**2.2 Label elements**

**Labelling according to EC Directives: 1999/45/EC**

Hazard symbols : 

Irritant

R-phrase(s) : R10 Flammable.  
 R36 Irritating to eyes.  
 R67 Vapours may cause drowsiness and dizziness.

S-phrase(s) : S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

# PRODUCT INFORMATION

## Sterillium classic pure

Version 1.3

Revision Date 15.08.2013

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S46

If swallowed, seek medical advice immediately and show this container or label.

### 2.3 Other hazards

None known.

## SECTION 3: Composition/information on ingredients

### 3.2 Mixtures

#### Hazardous components

Chemical Name	CAS-No. EC-No. Registration number	Classification (67/548/EEC)	Classification (REGULATION (EC) No 1272/2008)	Concentration [%]
propan-2-ol	67-63-0 200-661-7 01-2119457558-25	F; R11 Xi; R36 R67	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336	>= 25 - < 50
propan-1-ol	71-23-8 200-746-9 01-2119486761-29	F; R11 Xi; R41 R67	Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336	>= 25 - < 50
tetradecanol	112-72-1 204-000-3 01-2119485910-33	Xi; R36	Eye Irrit. 2; H319 Aquatic Chronic 1; H410	>= 1 - < 3
Mecetronium ethyl sulfate	3006-10-8 221-106-5	Xn; R22 C; R34 N; R50	Skin Corr. 1C; H314 Acute Tox. 4; H302 Aquatic Acute 1; H400	>= 0,025 - < 0,25

For the full text of the R-phrases mentioned in this Section, see Section 16.

For the full text of the H-Statements mentioned in this Section, see Section 16.

## SECTION 4: First aid measures

### 4.1 Description of first aid measures

General advice : If you feel unwell, seek medical advice (show the label where possible).

If inhaled : If breathed in, move person into fresh air.

- In case of eye contact : Rinse immediately with plenty of water, also under the eyelids, for at least 10 minutes.
- If swallowed : Rinse mouth.  
Do NOT induce vomiting.

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

no data available

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

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

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**SECTION 5: Firefighting measures**

**5.1 Extinguishing media**

- Suitable extinguishing media : Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
- Unsuitable extinguishing media : none

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

- Specific hazards during fire-fighting : Cool closed containers exposed to fire with water spray.
- Hazardous combustion products : no data available

**5.3 Advice for firefighters**

- Further information : Standard procedure for chemical fires.

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**SECTION 6: Accidental release measures**

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

- Personal precautions : Ensure adequate ventilation.  
Remove all sources of ignition.

**6.2 Environmental precautions**

- Environmental precautions : Should not be released into the environment.

**6.3 Methods and materials for containment and cleaning up**

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

**6.4 Reference to other sections**

**SECTION 7: Handling and storage**

**7.1 Precautions for safe handling**

- Advice on safe handling : Keep away from heat.
- Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice.

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

- Requirements for storage areas and containers : Store at room temperature in the original container. Keep tightly closed.
- Advice on common storage : Keep away from food and drink.

**7.3 Specific end use(s)**

no data available

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

**8.1 Control parameters**

Contains no substances with occupational exposure limit values.

- DNEL  
propan-2-ol (CAS: 67-63-0) :

  - End Use: Workers
  - Exposure routes: Skin contact
  - Potential health effects: Chronic effects
  - Value: 888 mg/kg
- End Use: Workers
  - Exposure routes: Inhalation
  - Potential health effects: Chronic effects
  - Value: 500 mg/m3
- End Use: Consumers
  - Exposure routes: Skin contact
  - Potential health effects: Chronic effects
  - Value: 319 mg/kg
- End Use: Consumers
  - Exposure routes: Inhalation
  - Potential health effects: Chronic effects
  - Value: 89 mg/m3

- End Use: Consumers  
 Exposure routes: Ingestion  
 Potential health effects: Chronic effects  
 Value: 26 mg/kg
- propan-1-ol (CAS: 71-23-8) :

  - End Use: Workers  
 Exposure routes: Skin contact  
 Potential health effects: Long-term systemic effects  
 Value: 136 mg/kg
  - End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Long-term systemic effects  
 Value: 268 mg/m<sup>3</sup>
  - End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Short-term exposure  
 Value: 1723 mg/m<sup>3</sup>
  - End Use: Consumers  
 Exposure routes: Skin contact  
 Potential health effects: Long-term systemic effects  
 Value: 81 mg/kg
  - End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Long-term systemic effects  
 Value: 80 mg/m<sup>3</sup>
  - End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Short-term exposure  
 Value: 1036 mg/m<sup>3</sup>
  - End Use: Consumers  
 Exposure routes: Ingestion  
 Potential health effects: Long-term systemic effects  
 Value: 61 mg/kg
- tetradecanol (CAS: 112-72-1) :

  - End Use: Workers  
 Exposure routes: Skin contact  
 Potential health effects: Long-term systemic effects  
 Value: 125 mg/kg
  - End Use: Workers  
 Exposure routes: Inhalation  
 Potential health effects: Long-term systemic effects  
 Value: 220 mg/m<sup>3</sup>
  - End Use: Consumers  
 Exposure routes: Skin contact  
 Potential health effects: Acute effects  
 Value: 75 mg/kg
  - End Use: Consumers  
 Exposure routes: Inhalation  
 Potential health effects: Acute effects  
 Value: 65 mg/m<sup>3</sup>

End Use: Consumers  
 Exposure routes: Ingestion  
 Potential health effects: Acute effects  
 Value: 75 mg/kg

PNEC  
 propan-2-ol (CAS: 67-63-0) : Fresh water  
 Value: 140,9 mg/l

Marine water  
 Value: 140,9 mg/l

Fresh water sediment  
 Value: 552 mg/kg

Marine sediment  
 Value: 552 mg/kg

Soil  
 Value: 28 mg/kg

propan-1-ol (CAS: 71-23-8) : Fresh water  
 Value: 10 mg/l

Soil  
 Value: 2,2 mg/kg

Marine water  
 Value: 1 mg/l

Fresh water sediment  
 Value: 22,8 mg/kg

Marine sediment  
 Value: 2,28 mg/kg

tetradecanol (CAS: 112-72-1) : Fresh water  
 Value: 0,00032 mg/l

Marine water  
 Value: 0,000032 mg/l

Soil  
 Value: 0,28 mg/kg

Fresh water sediment  
 Value: 0,36 mg/kg

Marine sediment  
 Value: 0,036 mg/kg

**8.2 Exposure controls**

**Personal protective equipment**

Protective measures : No special protective equipment required.

**Environmental exposure controls**

General advice : Should not be released into the environment.

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**SECTION 9: Physical and chemical properties**

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

Appearance	: liquid
Colour	: colourless
Odour	: alcohol-like
Odour Threshold	: no data available
pH	: no data available
Melting point/range	: not determined
Boiling point/boiling range	: 83 °C
Flash point	: 23 °C Method: DIN 51755 Part 1
Evaporation rate	: no data available
Flammability (solid, gas)	: no data available
Burning rate	: no data available
Lower explosion limit	: lower flammability limit 70 mg/m <sup>3</sup> at 20 °C Method: DIN 51649
Upper explosion limit	: no data available
Vapour pressure	: 6 kPa at 50 °C
Relative vapor density	: no data available
Relative density	: no data available
Density	: 0,85 g/cm <sup>3</sup> at 20 °C
Water solubility	: completely miscible
Solubility in other solvents	: no data available
Partition coefficient: n-octanol/water	: no data available
Ignition temperature	: no data available

Thermal decomposition : no data available  
 Viscosity, dynamic : no data available  
 Viscosity, kinematic : no data available  
 Explosive properties : no data available  
 Oxidizing properties : no data available

**9.2 Other information**

Conductivity : no data available

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**SECTION 10: Stability and reactivity**

**10.1 Reactivity**

No decomposition if stored and applied as directed.

**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 : Heat.  
 Strong sunlight for prolonged periods.

**10.5 Incompatible materials**

Materials to avoid : None.

**10.6 Hazardous decomposition products**

no data available

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**SECTION 11: Toxicological information**

**11.1 Information on toxicological effects**

**Product**

Acute oral toxicity : LD50 Oral rat: 13.300 mg/kg

Acute inhalation toxicity : no data available

Acute toxicity estimate : > 20 mg/l  
 Test atmosphere: vapour  
 Method: Calculation method

Acute dermal toxicity : LD50 Dermal rabbit: > 8.500 mg/kg  
 no data available



Acute toxicity (other routes of administration) : no data available  
 Skin corrosion/irritation : Result: No skin irritation  
 Serious eye damage/eye irritation : Result: Eye irritation  
 Respiratory or skin sensitization : Result: Does not cause skin sensitization.

Germ cell mutagenicity

Genotoxicity in vitro : no data available  
 Genotoxicity in vivo : no data available  
 Carcinogenicity : This information is not available.

Reproductive toxicity : This information is not available.

Teratogenicity : This information is not available.

STOT - single exposure : Remarks: no data available

Repeated dose toxicity :  
 Note: This information is not available.

STOT - repeated exposure : Remarks: no data available

**Components:**

**propan-2-ol (CAS: 67-63-0) :**

Acute oral toxicity : LD50 Oral rat: > 2.000 mg/kg  
 Acute inhalation toxicity : LC50 rat: > 20 mg/l  
 Exposure time: 8 h  
 Acute dermal toxicity : LD50 Dermal rabbit: > 2.000 mg/kg  
 Skin corrosion/irritation : Species: rabbit  
 Result: No skin irritation  
 Serious eye damage/eye irritation : Species: rabbit  
 Result: Eye irritation  
 Respiratory or skin sensitization : Test Method: Buehler Test  
 Species: guinea pig  
 Result: Did not cause sensitization on laboratory animals.  
 Germ cell mutagenicity  
 Genotoxicity in vitro : Type: Ames test  
 with or without metabolic activation

Result: negative

**propan-1-ol (CAS: 71-23-8) :**

- Acute oral toxicity : LD50 Oral rat: 8.000 mg/kg
- Acute inhalation toxicity : LC50 rat: > 33,8 mg/l  
Exposure time: 4 h  
Method: OECD Test Guideline 403
- Acute dermal toxicity : LD50 Dermal rabbit: 4.032 mg/kg  
Method: Calculation method
- Skin corrosion/irritation : Species: rabbit  
Result: No skin irritation
- Serious eye damage/eye irritation : Species: rabbit  
Result: Irreversible effects on the eye
- Respiratory or skin sensitization : Test Method: Maximisation Test  
Species: guinea pig  
Result: Did not cause sensitization on laboratory animals.  
Method: OECD Test Guideline 406
- Germ cell mutagenicity
- Genotoxicity in vitro : Type: in vitro assay  
Result: negative

**tetradecanol (CAS: 112-72-1) :**

- Acute oral toxicity : LD50 rat: > 5.000 mg/kg  
Method: OECD Test Guideline 401
- Acute inhalation toxicity : LC50 rat: 0,375 mg/l  
Exposure time: 4 h  
Test atmosphere: dust/mist
- Acute dermal toxicity : LD50 rabbit: > 5.000 mg/kg
- Skin corrosion/irritation : Result: No skin irritation  
Method: OECD Test Guideline 404
- Serious eye damage/eye irritation : Result: Eye irritation  
Method: OECD Test Guideline 405
- Respiratory or skin sensitization : Result: Did not cause sensitization on laboratory animals.  
Method: OECD Test Guideline 406

**Mecetronium ethyl sulfate (CAS: 3006-10-8) :**

- Acute oral toxicity : LD50 Oral rat: > 600 mg/kg

Method: OECD Test Guideline 401

Acute dermal toxicity	:	no data available
Skin corrosion/irritation	:	Result: Corrosive
Serious eye damage/eye irritation	:	Result: Risk of serious damage to eyes.
Respiratory or skin sensitization	:	Result: Does not cause skin sensitization. Method: OECD Test Guideline 406
Germ cell mutagenicity		
Germ cell mutagenicity- Assessment	:	Not mutagenic in Ames Test.

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## SECTION 12: Ecological information

### 12.1 Toxicity

**Product:**

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): 2.300 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	no data available
Toxicity to algae	:	EC50 (Desmodesmus subspicatus (green algae)): 22 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
Toxicity to bacteria	:	EC50 (Bacteria): > 10.000 mg/l Method: DIN 38 412 Part 8
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	no data available

**Components:**

**propan-2-ol (CAS 67-63-0) :**

Toxicity to fish	:	LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l Exposure time: 48 h
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): > 100 mg/l Exposure time: 48 h
Toxicity to algae	:	EC50 (Scenedesmus capricornutum (fresh water algae)): > 100 mg/l Exposure time: 72 h

**propan-1-ol (CAS 71-23-8) :**

Toxicity to fish	:	LC50 (Pimephales promelas (fathead minnow)): 4.555 mg/l
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	Exposure time: 96 h Test Method: flow-through test
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): 3.644 mg/l Exposure time: 48 h Method: DIN 38412
Toxicity to algae	: NOEC (Chlorella vulgaris (Fresh water algae)): 1.150 mg/l Exposure time: 48 h
Toxicity to bacteria	: EC50 (Bacteria): > 1.000 mg/l Exposure time: 3 h Method: OECD Test Guideline 209
<b>tetradecanol (CAS 112-72-1) :</b>	
Toxicity to fish	: LC50 (Oncorhynchus mykiss (rainbow trout)): > 100 mg/l Exposure time: 96 h Method: ISO 7346/2
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia magna (Water flea)): > 1 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): > 1 mg/l Exposure time: 72 h Test Method: static test Method: OECD Test Guideline 201
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	: NOEC: 0,0016 mg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
<b>Mecetronium ethyl sulfate (CAS 3006-10-8) :</b>	
Toxicity to fish	: LC50 (Leuciscus idus (Golden orfe)): 0,06 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	: EC50 (Daphnia): 0,019 mg/l Exposure time: 48 h Method: OECD Test Guideline 202
Toxicity to algae	: EC50 (Desmodesmus subspicatus (green algae)): 0,054 mg/l Exposure time: 72 h Method: OECD Test Guideline 201
	NOEC (Desmodesmus subspicatus (green algae)): 0,00014 mg/l
M-Factor	: 10

**12.2 Persistence and degradability**

**Product:**

Biodegradability : Result: Readily biodegradable.  
no data available

**Components:**

**Mecetronium ethyl sulfate (CAS 3006-10-8) :**

Biodegradability : Result: Readily biodegradable.  
Method: OECD Test Guideline 301

**12.3 Bioaccumulative potential**

**Product:**

Bioaccumulation : no data available

**12.4 Mobility in soil**

**Product:**

Distribution among environmental compartments : no data available

**12.5 Results of PBT and vPvB assessment**

**Product:**

Assessment : no data available

**12.6 Other adverse effects**

**Product:**

Adsorbed organic bound halogens (AOX) : Product does not contain any organic halogens.

**SECTION 13: Disposal considerations**

**13.1 Waste treatment methods**

Product : Dispose of as hazardous waste in compliance with local and national regulations.  
The following Waste Codes are only suggestions:

Waste Code EU : 070601\* aqueous washing liquids and mother liquors

Contaminated packaging : Empty remaining contents.  
Store containers and offer for recycling of material when in accordance with the local regulations.

**SECTION 14: Transport information**

**14.1 UN number**

ADR : UN 1987  
IMDG : UN 1987  
IATA : UN 1987

**14.2 UN proper shipping name**

ADR : ALCOHOLS, N.O.S. (isopropanol, n-propanol)  
IMDG : ALCOHOLS, N.O.S. (isopropanol, n-propanol)  
IATA : ALCOHOLS, N.O.S. (isopropanol, n-propanol)

**14.3 Transport hazard class**

ADR : 3  
IMDG : 3  
IATA : 3

**14.4 Packaging group**

**ADR**

Packaging group : III  
 Classification Code : F1  
 Hazard identification No : 30  
 Labels : 3  
 Tunnel restriction code : D/E

**IMDG**

Packaging group : III  
 Labels : 3  
 EmS Number : F-E, S-D

**IATA**

Packaging group : III  
 Labels : 3

**14.5 Environmental hazards**

**ADR**

Environmentally hazardous : no

**IMDG**

Marine Pollutant : no

**IATA**

Environmentally hazardous : no

**14.6 Special precautions for user**

not applicable

**14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code**

not applicable

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**SECTION 15: Regulatory information**

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

**Notification status**

CH INV : The formulation contains substances listed on the Swiss Inventory  
 US.TSCA : On TSCA Inventory  
 DSL : This product contains the following components listed on the Canadian NDSL. All other components are on the Canadian DSL.  
 AICS : On the inventory, or in compliance with the inventory  
 NZIoC : Not in compliance with the inventory  
 ENCS : Not in compliance with the inventory  
 ISHL : Not in compliance with the inventory  
 KECI : Not in compliance with the inventory  
 PICCS : Not in compliance with the inventory  
 IECSC : Not in compliance with the inventory

For explanation of abbreviations see section 16.

**15.2 Chemical Safety Assessment**

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

**SECTION 16: Other information**

**Full text of R-phrases referred to under sections 2 and 3**

R10	Flammable.
R11	Highly flammable.
R22	Harmful if swallowed.
R34	Causes burns.
R36	Irritating to eyes.
R41	Risk of serious damage to eyes.
R50	Very toxic to aquatic organisms.
R67	Vapours may cause drowsiness and dizziness.

**Full text of H-Statements referred to under sections 2 and 3.**

H225	Highly flammable liquid and vapour.
H302	Harmful if swallowed.
H314	Causes severe skin burns and eye damage.
H318	Causes serious 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.

**Full text of other abbreviations**

Notification status

CH INV	: Switzerland. New notified substances and declared preparations
US.TSCA	: Toxic substances control act
DSL	: Canada. DSL - Domestic Substances List, part of CEPA
AICS	: Australia. AICS - Australian Inventory of Chemical Substances
NZIoC	: New Zealand Inventory of Chemical Substances
ENCS	: Japan. ENCS - Existing and New Chemical Substances Inventory
ISHL	: Japan. Industrial Safety and Health Law - Inventory
KECI	: Korea. KECI - Korean Existing Chemicals Inventory
PICCS	: Philippines. PICCS - Philippines Inventory of Chemicals and Chemical Substances
IECSC	: China. IECSC - Inventory of Existing Chemical Substances in China

**Safety datasheet sections which have been updated:**

- 8. Exposure controls/personal protection
- 9. Physical and chemical properties
- 11. Toxicological information
- 12. Ecological information
- 15. Regulatory information

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