

1. IDENTIFICATION OF SUBSTANCES / PREPARATION AND COMPANY

Product Name: Sterillium
 Product Code: 894

Application: Hand disinfectant

Company: Davis Schottlander & Davis Ltd
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2. HAZARD IDENTIFICATION

GHS Classification:

Flammable liquids: Category 3
 Serious eye damage/eye irritation: Category 2A
 Specific target organ toxicity –
 Single exposure: Category 3

GHS label element:

Hazard pictograms:



Signal word:

Warning

Hazard statements:

H226 Flammable liquid and vapour
 H319 Causes serious eye irritation
 H336 May cause drowsiness or dizziness

Precautionary statements:

P102 Keep out of reach of children

Prevention:

P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
 P233 Keep container tightly closed

Response:

P305 + P351 + P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
 P337 + P313 If eye irritation persists get medical advice/attention.
 P301 + P310 IF SWALLOWED, immediately call a POISON CENTRE or doctor/physician.

Disposal:

P501 Dispose of contents/container to an approved waste disposal plant.

Other hazards which do not result in classification:

None known.

3. COMPOSITION / INFORMATION ON INGREDIENTS**Substance / Mixture:** Mixture**Hazardous components:**

Chemical Name	CAS No.	Concentration (% w/w)
Propan-2-ol	67-63-0	>= 30 - <50
Propan-1-ol	71-23-8	>= 30 - <50
1-Tetradecanol	112-72-1	>=0,1 - <1
Mecetronium etilsulfate	3006-10-8	>=0,1 - <1

4. FIRST AID MEASURES

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

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.

Notes to physician: For specialist advice physicians should contact the Poisons Information Service.

Most important symptoms and effects, both acute and delayed: None known

5. FIRE FIGHTING MEASURES

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

Unsuitable extinguishing media: None

Specific hazards during fire fighting: Cool closed containers exposed to fire with water spray.

Hazardous combustion products: No hazardous combustion products are known.

Specific extinguishing methods: Standard procedure for chemical fires.

6. ACCIDENTAL RELEASE MEASURES

Personal precautions, protective equipment and emergency procedures:

Ensure adequate ventilation. Remove all sources of ignition.

Environmental precautions:

Should not be released into the environment.

Methods and materials for containment and cleaning up:

Wipe up with absorbent material (e.g. cloth, fleece).

7. HANDLING AND STORAGE

Advice on protection against fire and explosion:

Keep away from sources of ignition. No smoking.

Advice on safe handling:

Keep away from heat.

Conditions for safe storage:

Store at room temperature in the original container. Keep tightly closed.

Materials to avoid:

Keep away from food and drink.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION**Components with workplace control parameters:**

Components	CAS No.	Value type (form of exposure)	Control parameters / Permissible concentration	Basis
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Propan-1-ol	71-23-8	TWA	100 ppm	ACGIH

Biological occupational exposure limits:

Components	CAS No.	Control parameters	Biological specimen	Sampling time	Permissible concentration	Basis
Propan-2-ol	67-63-0	Acetone	Urine	End of shift at end of work week	40 mg/l	ACGIH BEI

Personal protective equipment:**Protective measures:** No special protective equipment required.**Hygiene measures:** Handle in accordance with good industrial hygiene and safety practice.**9. PHYSICAL AND CHEMICAL PROPERTIES**

Appearance:	Liquid
Colour:	Colourless
Odour:	Alcohol-like
pH:	No data available
Melting point/range:	Not determined
Boiling point/range:	83°C
Flash point:	23°C Method: DIN 51755 Part 1
Flammability (solid, gas):	No data available
Lower expansion limit:	Lower flammability limit 70 g/m ³ (20°C) Method: DIN 51649
Vapour pressure:	6 kPa (50°C)
Density:	0,85 g/cm ³ (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.
Incompatible materials:	None.
No data available:	

11. TOXICOLOGY INFORMATION**Acute toxicity:****Product:**

Acute oral toxicity: LD50 Oral (Rat): 13.300 mg/kg

Acute dermal toxicity: LD50 Dermal (Rabbit): > 8.500 mg/kg

Components:**Propan-2-ol (CAS: 67-63-0):**

Acute oral toxicity: LD50 Oral (Rat): > 2.000 mg/kg

Acute dermal toxicity: LD50 Dermal (Rabbit): > 2.000 mg/kg

Propan-1-ol (CAS: 71-23-8):

Acute oral toxicity: LD50 Oral (Rat): 8.000 mg/kg
Method: OECD Test Guideline 401

Acute inhalation toxicity: LC50 (Rat): > 33,8 mg/l
Exposure time: 4h
Method: OECD Test Guideline 403

Acute dermal toxicity: LD50 Dermal (Rabbit): 4.032 mg/kg
Method: OECD Test Guideline 402

1-Tetradecanol (CAS: 112-72-1):

Acute oral toxicity: LD50 (Rat): > 2.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 (Rabbit): > 2.000 mg/kg

Mecetronium etilsulfate (CAS: 3006-10-8):

Acute oral toxicity: LD50 Oral (Rat): > 600 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity: LD50 Dermal (Rabbit): > 2.000 mg/kg
Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Result: No skin irritation

Components:

Propan-2-ol (CAS: 67-63-0):

Species: Rabbit
Result: No skin irritation

Propan-1-ol (CAS: 71-23-8):

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

1-Tetradecanol (CAS: 112-72-1):

Method: OECD Test Guideline 404
Result: No skin irritation

Mecetronium etilsulfate (CAS: 3006-10-8):

Species: Rabbit
Method: OECD Test Guideline 404
Result: Corrosive

Serious eye damage/eye irritation

Product:

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

Components:

Propan-2-ol (CAS: 67-63-0):

Species: Rabbit
Result: Eye irritation

Propan-1-ol (CAS: 71-23-8):

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irreversible effects on the eye

1-Tetradecanol (CAS: 112-72-1):

Species: Rabbit

Method: OECD Test Guideline 405

Result: Irritating to eyes.

Mecetronium etilsulfate (CAS: 3006-10-8):

Species: Rabbit

Method: OECD Test Guideline 405

Result: Risk of serious damage to eyes.

Respiratory or skin sensitisation:

Product:

Result: Does not cause skin sensitisation

Components:

Propan-2-ol (CAS: 67-63-0):

Test Type: Buehler Test

Species: Guinea pig

Result: Did not cause sensitisation on laboratory animals.

Propan-1-ol (CAS: 71-23-8):

Test Type: Maximisation Test (GPMT)

Species: Guinea pig

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

1-Tetradecanol (CAS: 112-72-1):

Method: OECD Test Guideline 406

Result: Did not cause sensitisation on laboratory animals.

Mecetronium etilsulfate (CAS: 3006-10-8):

Method: OECD Test Guideline 406

Result: Does not cause skin sensitisation.

Germ cell mutagenicity:

Components:

Propan-2-ol (CAS: 67-63-0):

Genotoxicity in vitro: Test type: Ames test

Metabolic activation: with and without metabolic activation

Result: Negative

Propan-1-ol (CAS: 71-23-8):

Genotoxicity in vitro: Test type: in vitro assay

Result: Negative

Mecetronium etilsulfate (CAS: 3006-10-8):

Germ cell mutagenicity –

Assessment: Not mutagenic in Ames Test

Reproductive toxicity: No data available

STOT-single exposure: No data available

Repeated dose toxicity: No data available

Aspiration toxicity: No data available

Experience with human exposure**Components:****Mecetronium etilsulfate (CAS: 3006-10-8):**

Ingestion: Symptoms: Gastrointestinal discomfort, vomiting.

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity**Product:**

Toxicity to fish: LC50 (Leuciscus idus (Golden orfe)): 2.300 mg/l
 Exposure time: 96 h
 Method: OECD Test Guideline 203

Toxicity to algae: EC50 (Desmodesmus subspicatus (green algae)): 22 mg/l
 Exposure time: 72 h
 Method: OECD Test Guideline 201
 NOEC (Desmodesmus subspicatus (green algae)): 7,8 mg/l Exposure time: 72 h

Toxicity to bacteria: IC50 (Bacteria): > 10.000 mg/l
 Method: DIN 38 412 Part 8

Components:**Propan-2-ol (CAS: 67-63-0):**

Toxicity to fish: LC50 (Leuciscus idus (Golden orfe)): > 100 mg/l
 Exposure time: 96 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
 Exposure time: 96 h
 Test Type: flow-through test
 Method: OECD Test Guideline 203

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 pyrenoidosa (algae)): 1.150 mg/l
 Exposure time: 48h
 Test Type: Growth inhibition
 EC50 (Pseudokirchneriella subcapitata (green algae)): 9.170 mg/l
 Exposure time: 72 h
 Test Type: Growth inhibition

SAFETY DATA SHEET

Toxicity to bacteria: IC50 (Bacteria): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

1-Tetradecanol (CAS: 112-72-1):

Toxicity to fish: LC50 (Oncorhynchus mykiss (rainbow trout)): > 1 mg/l
Exposure time: 96 h

Toxicity to daphnia and
other aquatic
invertebrates:

EC50 (Daphnia magna (Water flea)): 3,2 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 Type: 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

M-Factor (Chronic
aquatic toxicity):

1

Mecetronium etilsulfate (CAS: 3006-10-8):

Toxicity to fish: LC50 (Leuciscus idus (Golden orfe)): 0,2 mg/l
Exposure time: 96 h
Method: OECD Test Guideline 203

Toxicity to daphnia and
other aquatic
invertebrates:

EC50 (Daphnia (water flea)): 0,019 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae: EC50 (Desmodesmus subspicatus (green algae)): 0,025 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
NOEC (Desmodesmus subspicatus (green algae)): 0,00014 mg/l
Exposure time: 21 d

M-Factor (Acute aquatic
toxicity):

10

Toxicity to bacteria:

IC50 (Bacteria): 22 mg/l
Method: OECD Test Guideline 209

M-Factor (Chronic aquatic
toxicity):

10

Persistence and degradability**Product:**

Biodegradability: Result: Readily biodegradable

Components:**1-Tetradecanol (CAS: 112-72-1):**Biodegradability: Result: Readily biodegradable
Biodegradation: > 60 % Exposure time: 28 d
Method: OECD Test Guideline 301B**Mecetronium etilsulfate (CAS: 3006-10-8):**Biodegradability: Result: Readily biodegradable
Method: OECD Test Guideline 301**Bioaccumulative potential**

No data available

Mobility in soil

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods****Waste from residues:**Dispose of as hazardous waste in compliance with local and national regulations.
Waste codes should be assigned by the user, preferably in discussion with the waste disposal authorities.**Contaminated packaging:**

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

14. TRANSPORT INFORMATION**ADR**UN number: UN 1987
Proper shipping name: ALCOHOLS, N.O.S.
(isopropanol, n-propanol)
Class: 3
Packing group: III
Labels: 3
Hazard Identification Number: 30
Tunnel restriction code: D/E**IATA-DGR**UN/ID No: UN 1987
Proper shipping name: ALCOHOLS, N.O.S.
(isopropanol, n-propanol)
Class: 3
Packing group: III

SAFETY DATA SHEET

Labels:	Class 3 - Flammable Liquid
Packing instruction (cargo air-craft):	366
Packing instruction (passenger aircraft):	355
IMDG-Code	
UN number:	UN 1987
Proper shipping name:	ALCOHOLS, N.O.S. (isopropanol, n-propanol)
Class:	3
Packing group:	III
Labels:	3
EmS Code:	F-E, S-D
Marine pollutant:	No
Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code	
Not applicable for product as supplied.	

15. REGULATORY INFORMATION

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

16. FURTHER INFORMATION

The data given above covers exclusively the safety requirements of the product(s) and is based on our current knowledge and experience. It does not signify any warranty with regards to the products properties. This product is only supplied for specific uses in dentistry and must be used in accordance with the directions for use.