

SAFETY DATA SHEET

according to the Globally Harmonized System

Sterillium med

Version 1.16	Revision Date: 07.01.2025	SDS Number: R11520	Date of last issue: 26.02.2024 Date of first issue: 08.07.2014
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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 :

Responsible Department : Scientific Affairs
sds@bode-chemie.de

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

Recommended use of the chemical and restrictions on use

Recommended use : In-door use
Hand Sanitizer
Human hygiene biocidal products
For further information, refer to the product technical data sheet.

2. HAZARDS IDENTIFICATION


GHS Classification

Flammable liquids : Category 2

Serious eye damage/eye irritation : Category 2A

Long-term (chronic) aquatic hazard : Category 3

GHS label elements

Hazard pictograms : 

Signal word : Danger

Hazard statements : H225 Highly flammable liquid and vapour.
H319 Causes serious eye irritation.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : P102 Keep out of reach of children.
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.

Prevention:

P233 Keep container tightly closed.

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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 CENTER/ doctor.

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

Components

Chemical name	CAS-No.	Concentration (% w/w)
Ethanol	64-17-5	$\geq 70 - < 90$
Propan-1-ol	71-23-8	$\geq 1 - < 3$
tetradecanol	112-72-1	$\geq 0,25 - < 1$

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 : Do NOT induce vomiting.
Rinse mouth.
- Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.

5. FIREFIGHTING MEASURES

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

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.

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- Environmental precautions : Should not be released into the environment.
- Methods and materials for containment and cleaning up : Clean-up methods - small spillage
Wipe up with absorbent material (e.g. cloth, fleece).
Clean-up methods - large spillage
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).

7. HANDLING AND STORAGE

- Advice on protection against fire and explosion : Keep away from sources of ignition - No smoking.
Vapours may form explosive mixtures with air.
Vapours are heavier than air and may spread along floors.
Provide sufficient air exchange and/or exhaust in work rooms.
Take measures to prevent the build up of electrostatic charge.
- Advice on safe handling : Avoid contact with eyes.
- Conditions for safe storage : Store in original container.
Keep tightly closed.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Ethanol	64-17-5	STEL	1.000 ppm	ACGIH
Propan-1-ol	71-23-8	TWA	100 ppm	ACGIH

Personal protective equipment

- Eye protection : Always wear eye protection when the potential for inadvertent eye contact with the product cannot be excluded.
Safety glasses with side-shields conforming to EN166
- Hygiene measures : Keep away from food and drink.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : colourless
- Odour : alcohol-like
- pH : No data available
- Melting point/range : not determined
- Boiling point/boiling range : > 80 °C

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Flash point	:	20 °C
		Method: ISO 3679
Lower explosion limit / Lower flammability limit	:	Lower flammability limit 62 g/m ³ (20 °C) Method: DIN EN 1839
Vapour pressure	:	5,0 kPa (20 °C)
Density	:	0,821 g/cm ³ (20 °C)
Solubility(ies) Water solubility	:	completely miscible
Viscosity Viscosity, kinematic	:	2,05 mm ² /s (20 °C) Method: OECD Test Guideline 114
Surface tension	:	29,1 mN/m, 1 g/l, 20 °C, OECD Test Guideline 115

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, flames and sparks. Strong sunlight for prolonged periods.
Incompatible materials	:	None.
Hazardous decomposition products	:	No hazardous decomposition products are known.

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Not classified based on available information.

Components:

Ethanol (CAS: 64-17-5):

Acute oral toxicity	:	LD50 Oral (Rat): 10.470 mg/kg Method: OECD Test Guideline 401
Acute inhalation toxicity	:	LC50 (Rat): 124,7 mg/l Exposure time: 4 h Test atmosphere: vapour Method: OECD Test Guideline 403
Acute dermal toxicity	:	LD50 Dermal (Rabbit): > 2.000 mg/kg Method: OECD Test Guideline 402

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

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

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

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

tetradecanol (CAS: 112-72-1):

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg
Method: OECD Test Guideline 401

Acute dermal toxicity : LD50 Dermal (Rabbit): > 5.000 mg/kg

Skin corrosion/irritation

Not classified based on available information.

Components:

Ethanol (CAS: 64-17-5):

Species : human skin
Result : Mild skin irritation
Remarks : Based on available data, the classification criteria are not met.

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

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

tetradecanol (CAS: 112-72-1):

Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation

Serious eye damage/eye irritation

Causes serious eye irritation.

Components:

Ethanol (CAS: 64-17-5):

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritating to eyes.

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

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irreversible effects on the eye

tetradecanol (CAS: 112-72-1):

Species : Rabbit
Method : OECD Test Guideline 405
Result : Irritating to eyes.

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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:

Ethanol (CAS: 64-17-5):

Species : Mouse
Method : OECD Test Guideline 429
Result : Does not cause skin sensitisation.

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

Test Type : Maximisation Test
Species : Guinea pig
Method : OECD Test Guideline 406
Result : Did not cause sensitisation on laboratory animals.

tetradecanol (CAS: 112-72-1):

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.

Components:

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

Genotoxicity in vitro : Test Type: in vitro assay
Result: negative

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

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12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ethanol (CAS: 64-17-5):

- Toxicity to fish : LC50 (Oncorhynchus mykiss (rainbow trout)): 11.200 mg/l
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 9.268 mg/l
Exposure time: 48 h
- Toxicity to algae/aquatic plants : EC50 (Chlorella vulgaris (Fresh water algae)): 275 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201
- NOEC (Chlorella vulgaris (Fresh water algae)): 9,6 mg/l
Exposure time: 72 h
Method: OECD Test Guideline 201

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

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 4.554 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)): 2.300 mg/l
Exposure time: 48 h
Test Type: static test
Method: OECD Test Guideline 202
- Toxicity to algae/aquatic plants : NOEC (Chlorella pyrenoidosa (algae)): 1.150 mg/l
Exposure time: 48 h
Test Type: Growth inhibition
- EC50 (Pseudokirchneriella subcapitata (green algae)): 9.170 mg/l
Exposure time: 72 h
Test Type: Growth inhibition
- Toxicity to microorganisms : IC50 (Bacteria): > 1.000 mg/l
Exposure time: 3 h
Method: OECD Test Guideline 209

tetradecanol (CAS: 112-72-1):

- Toxicity to fish : LC50 (Brachydanio rerio (zebrafish)): > 100 mg/l
Exposure time: 96 h
Method: ISO 7346/2
- 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/aquatic plants : EC50 (Scenedesmus capricornutum (fresh water algae)): > 10 mg/l
Exposure time: 72 h
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)

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Method: OECD Test Guideline 211

M-Factor (Chronic aquatic toxicity) : 1

Persistence and degradability

Product:

Biodegradability : Result: Readily biodegradable.
Remarks: The data is estimated based on the component aquatic toxicity classification.

Components:

Ethanol (CAS: 64-17-5):

Biodegradability : Result: Readily biodegradable.

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

Biodegradability : Result: Readily biodegradable.

tetradecanol (CAS: 112-72-1):

Biodegradability : Result: Readily biodegradable.
Biodegradation: > 60 %
Exposure time: 28 d
Method: OECD Test Guideline 301B

Bioaccumulative potential

Product:

Bioaccumulation : Remarks: No data available

Components:

Ethanol (CAS: 64-17-5):

Partition coefficient: n-octanol/water : log Pow: -0,35

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

Partition coefficient: n-octanol/water : log Pow: 0,25

tetradecanol (CAS: 112-72-1):

Partition coefficient: n-octanol/water : log Pow: 5,5

Mobility in soil

Product:

Distribution among environmental compartments : Remarks: No data available

Components:

tetradecanol (CAS: 112-72-1):

Distribution among environmental compartments : Remarks: The product evaporates slowly.

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Stability in soil : Remarks: Adsorbs on soil.

Other adverse effects

Product:

Adsorbed organic bound halogens (AOX) : Remarks: 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 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(ethanol, propan-1-ol)
Class : 3
Packing group : II
Labels : 3
Hazard Identification Number : 33
Tunnel restriction code : (D/E)
Limited quantity (LQ) : 1,00 L
Environmentally hazardous : no

UNRTDG

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.
(ethanol, propan-1-ol)
Class : 3
Packing group : II
Labels : 3
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 1993
Proper shipping name : Flammable liquid, n.o.s.
(ethanol, propan-1-ol)
Class : 3
Packing group : II
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 364
Packing instruction (passenger aircraft) : 353

IMDG-Code

UN number : UN 1993
Proper shipping name : FLAMMABLE LIQUID, N.O.S.

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(ethanol, propan-1-ol)
Class : 3
Packing group : II
Labels : 3
EmS Code : F-E, S-E
Limited quantity (LQ) : 1,00 L
Marine pollutant : no

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

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.

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

16. OTHER INFORMATION

Revision Date : 07.01.2025

Date format : yyyy/mm/dd

Safety datasheet sections which have been updated:

9. Physical and chemical properties

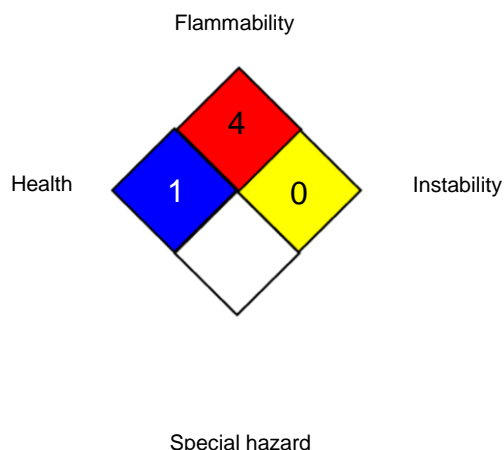
Further information

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NFPA:



HMIS® IV:

HEALTH	/	1
FLAMMABILITY		4
PHYSICAL HAZARD		0

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

ACGIH : USA. ACGIH Threshold Limit Values (TLV)

ACGIH / TWA : 8-hour, time-weighted average

ACGIH / STEL : Short-term exposure limit

AIC - 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-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

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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TC / EN