

SAFETY DATA SHEET

Bacillol Tissues

Version	Revision Date:	SDS Number:	Date of last issue: 12.06.2020
1.12	28.07.2020	R11505	Date of first issue: 06.06.2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Bacillol Tissues

Product code : R11505

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
kundenservice-SIDA@bode-chemie.de

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

Recommended use of the chemical and restrictions on use

Recommended use : In-door use
Disinfectants and algacides not intended for direct application to humans or animals
Food and feed area disinfectants

Restrictions on use : Restricted to professional users.

2. HAZARDS IDENTIFICATION

GHS Classification

Flammable liquids : Category 3

Serious eye damage/eye irritation : Category 2A

GHS label elements

Hazard pictograms :



Signal word : Warning

Hazard statements : H226 Flammable liquid and vapour.
H319 Causes serious eye irritation.

Precautionary statements : **Prevention:**
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
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.

Bacillol Tissues**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)
Propan-1-ol	71-23-8	≥ 30 - < 50
Propan-2-ol	67-63-0	≥ 20 - < 30
Ethanol	64-17-5	≥ 1 - < 10

4. FIRST AID MEASURES

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

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

Most important symptoms and effects, both acute and delayed : Causes serious eye irritation.

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

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.
Remove all sources of ignition.

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 protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.
Keep away from open flames, hot surfaces and sources of ignition.

Conditions for safe storage : Store at room temperature in the original container.
Keep tightly closed.

Materials to avoid : Keep away from food and drink.

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

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
Propan-1-ol	71-23-8	TWA	100 ppm	ACGIH
Propan-2-ol	67-63-0	TWA	200 ppm	ACGIH
		STEL	400 ppm	ACGIH
Ethanol	64-17-5	STEL	1.000 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 workweek	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.
Avoid contact with eyes.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance : Liquid absorbed by inert carrier material

Colour : colourless

Odour : pleasant

pH : No data available

Boiling point/boiling range : > 80 °C

Flash point : 25 °C

Method: DIN 51755 Part 1

Lower explosion limit / Lower flammability limit : 2 %(V)

Vapour pressure : 41 hPa (20 °C)

Density : 0,86 g/cm³ (20 °C)

Solubility(ies)
Water solubility : soluble

10. STABILITY AND REACTIVITY

Reactivity : No decomposition if stored and applied as directed.

Chemical stability : The product is chemically stable.

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Possibility of hazardous reactions : No dangerous reaction known under conditions of normal use.

Conditions to avoid : Heat
Strong sunlight for prolonged periods.

Incompatible materials : None.

11. TOXICOLOGICAL INFORMATION**Acute toxicity**

Not classified based on available information.

Product:

Acute inhalation toxicity : Acute toxicity estimate: > 40 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: Calculation method

Acute dermal toxicity : Acute toxicity estimate: > 5.000 mg/kg
Method: Calculation method

Components:**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: 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

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

Acute oral toxicity : LD50 Oral (Rat): > 5.000 mg/kg

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

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): 51 mg/l
Exposure time: 4 h
Test atmosphere: vapour
Method: OECD Test Guideline 403

Skin corrosion/irritation

Not classified based on available information.

Product:

Result : No skin irritation

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

Species : Rabbit

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Method : OECD Test Guideline 404
 Result : No skin irritation

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

Species : Rabbit
 Result : No skin irritation

Ethanol (CAS: 64-17-5):

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

Serious eye damage/eye irritation

Causes serious eye irritation.

Product:

Result : Eye irritation

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

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

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

Species : Rabbit
 Result : Eye irritation

Ethanol (CAS: 64-17-5):

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

Respiratory or skin sensitisation**Skin sensitisation**

Not classified based on available information.

Respiratory sensitisation

Not classified based on available information.

Components:**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.

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

Test Type : Buehler Test
 Species : Guinea pig
 Result : Did not cause sensitisation on laboratory animals.

Ethanol (CAS: 64-17-5):

Species : Mouse
 Method : OECD Test Guideline 429

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Result : Does not cause skin sensitisation.

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

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

Genotoxicity in vitro : Test Type: Ames test
Metabolic activation: with and without metabolic activation
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

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

12. ECOLOGICAL INFORMATION**Ecotoxicity****Components:****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
Test Type: static test
Method: DIN 38412

Toxicity to algae/aquatic plants : NOEC (Chlorella pyrenoidosa (aglae)): 1.150 mg/l

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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

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/aquatic plants : EC50 (*Scenedesmus capricornutum* (fresh water algae)): > 100 mg/l
Exposure time: 72 h

Ethanol (CAS: 64-17-5):

Toxicity to fish : LC50 (*Leuciscus idus* (Golden orfe)): 8.140 mg/l
Exposure time: 48 h
Method: DIN 38412

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 (*Selenastrum capricornutum* (green algae)): 5.000 mg/l
Exposure time: 7 d

Persistence and degradability**Product:**

Biodegradability : Remarks: According to the results of tests of biodegradability this product is considered as being readily biodegradable.

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

Biodegradability : Result: Readily biodegradable.

Ethanol (CAS: 64-17-5):

Biodegradability : Remarks: Readily biodegradable, according to appropriate OECD test.

Bioaccumulative potential

No data available

Mobility in soil

No data available

Other adverse effects**Product:**

Adsorbed organic bound halogens (AOX) : Remarks: No data available

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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 3175
Proper shipping name : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
(propan-1-ol, propan-2-ol)
Class : 4.1
Packing group : II
Labels : 4.1
Hazard Identification Number : 40
Tunnel restriction code : (E)

UNRTDG

- UN number : UN 3175
Proper shipping name : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
(propan-1-ol, propan-2-ol)
Class : 4.1
Packing group : II
Labels : 4.1

IATA-DGR

- UN/ID No. : UN 3175
Proper shipping name : Solids containing flammable liquid, n.o.s.
(propan-1-ol, propan-2-ol)
Class : 4.1
Packing group : II
Labels : Flammable Solid
Packing instruction (cargo aircraft) : 448
Packing instruction (passenger aircraft) : 445

IMDG-Code

- UN number : UN 3175
Proper shipping name : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.
(propan-1-ol, propan-2-ol)
Class : 4.1
Packing group : II
Labels : 4.1
EmS Code : F-A, S-I
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.

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15. REGULATORY INFORMATION

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

Labelling

Symbol(s)	:	Xi
Risk phrase(s)	:	R10 Flammable. R41 Risk of serious damage to eyes. R67 Vapours may cause drowsiness and dizziness.
Safety phrase(s)	:	S 9 Keep container in a well-ventilated place. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39 Wear eye/face protection. S60 This material and its container must be disposed of as hazardous waste.

International Regulations

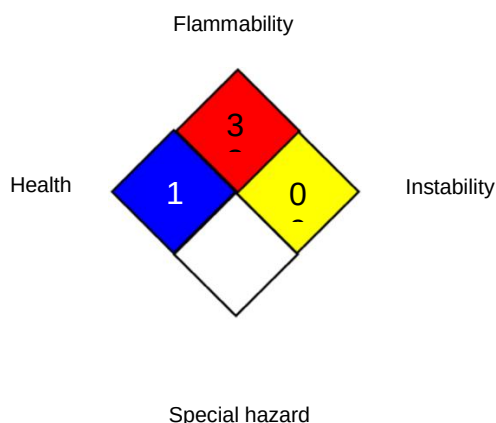
16. OTHER INFORMATION

Safety datasheet sections which have been updated:

8. Exposure controls/personal protection

Further information

NFPA:



HMIS® IV:

HEALTH	/	1
FLAMMABILITY		3
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 BEI	:	ACGIH - Biological Exposure Indices (BEI)
ACGIH / TWA	:	8-hour, time-weighted average
ACGIH / STEL	:	Short-term exposure limit

AICS - Australian Inventory of Chemical Substances; 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

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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; 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.

TC / EN