

# SAFETY DATA SHEET

## Bacillof AF Tissues

Version 1.9      Revision Date: 08.11.2021      SDS Number: R11586      Date of last issue: 09.09.2021  
Date of first issue: 06.06.2014

### 1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Bacillof AF Tissues

#### 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 2689

Responsible Department : just.winterink@hartmann.info

Emergency telephone number : Nationaal Vergiftigingen Informatie Centrum (NVIC)  
Rijksinstituut voor Volksgezondheid en Milieu  
Postbus 1, NL-3720 BA Bilthoven  
Netherlands  
24h-Phone +31 30 - 274 88 88

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

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 : P102 Keep out of reach of children.

#### Prevention:

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

**Bacillo AF Tissues****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.

**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**

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- 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, drink and animal feedingstuffs.

### 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

- Respiratory protection : No personal respiratory protective equipment normally required.
- 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
- Flammability (solid, gas) : No data available
- Lower explosion limit / Lower flammability limit : 2 %(V)

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Density	:	0,86 g/cm <sup>3</sup> (20 °C)
Solubility(ies) Water solubility	:	soluble

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### 10. STABILITY AND REACTIVITY

Reactivity	:	No decomposition if stored and applied as directed.
Chemical stability	:	The product is chemically stable.
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.

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### 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

**Bacillo AF Tissues****Skin corrosion/irritation**

Not classified based on available information.

**Product:**

Result : No skin irritation

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

Species : Rabbit  
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

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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  
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

**Bacillo AF Tissues****12. ECOLOGICAL INFORMATION****Ecotoxicity****Components:****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 (aglae)): 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

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

- Toxicity to fish : LC50 (Pimephales promelas (fathead minnow)): 8.692 mg/l  
Exposure time: 96 h
- Toxicity to daphnia and other aquatic invertebrates : EC50 (Daphnia magna (Water flea)): 2.285 mg/l  
Exposure time: 48 h
- NOEC (Daphnia magna (Water flea)): 141 mg/l  
Exposure time: 16 d
- Toxicity to algae/aquatic plants : EC50 ( Pseudokirchneriella subcapitata (green algae)): 10.500 mg/l  
Exposure time: 72 h

**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

**Persistence and degradability****Product:**

- Biodegradability : Remarks: According to the results of tests of biodegradability this

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product is considered as being readily biodegradable.

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

Biodegradability : Result: Readily biodegradable.

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

Biodegradability : Result: rapidly biodegradable

**Ethanol (CAS: 64-17-5):**

Biodegradability : Result: Readily biodegradable.

**Bioaccumulative potential****Product:**

Bioaccumulation : Remarks: No data available

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

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

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

Partition coefficient: n-octanol/water : log Pow: 0,05

**Ethanol (CAS: 64-17-5):**

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

**Mobility in soil****Product:**

Distribution among environmental compartments : Remarks: 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.

**Bacillo AF Tissues****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**

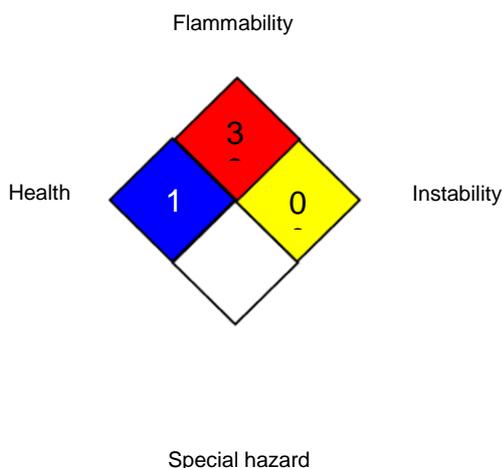
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

**15. REGULATORY INFORMATION****Safety, health and environmental regulations/legislation specific for the substance or mixture****Other international regulations****International Regulations****The components of this product are reported in the following inventories:**

TSCA : All substances listed as active on the TSCA inventory

**Bacillo AF Tissues****16. OTHER INFORMATION****Safety datasheet sections which have been updated:**

13. Disposal considerations

**Further information****NFPA:****HMIS® IV:**

<b>HEALTH</b>	//	<b>1</b>
<b>FLAMMABILITY</b>		<b>3</b>
<b>PHYSICAL HAZARD</b>		<b>0</b>

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

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; TSCA - Toxic Substances Control Act (United States); UN - United Nations; UNRTDG - United Nations Recommendations on the Transport of Dangerous Goods;

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vPvB - Very Persistent and Very Bioaccumulative; WHMIS - Workplace Hazardous Materials Information System

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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