Bacillol 30 Tissues

Version	Revision Date:	SDS Number:	Date of last issue: 09.08.2019
1.8	11.02.2021	R11587	Date of first issue: 06.06.2014

1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Bacillol 30 Tissues

Product code : R11587

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 algaecides 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

Serious eye damage/eye irritation : Category 2A

Flammable liquids : Category 3

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.

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)
Ethanol	64-17-5	>= 10 - < 20
Propan-2-ol	67-63-0	>= 10 - < 20
Propan-1-ol	71-23-8	>= 3 - < 10
Amines, N-C10–C16-alkyltrimethylenedi-, reaction products with chloroacetic acid	139734-65-9	>= 0,25 - < 1

4. FIRST AID MEASURES

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

In case of skin contact : Wash off with soap and water.

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

Most important symptoms and effects, both acute and delayed : No information available.

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.
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against fire : Take measures to prevent the build up of electrostatic charge.

and explosion		Keep away from open flames, hot surfaces and sources of ignition.
Advice on safe handling	:	For personal protection see section 8.
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
Ethanol	64-17-5	STEL	1.000 ppm	ACGIH
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 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance	:	Liquid absorbed by inert carrier material
Colour	:	colourless
Odour	:	alcohol-like
pH	:	No data available
Melting point/range	:	not determined
Boiling point/boiling range	:	> 80 °C
Flash point	:	31 °C Method: ISO 3679
Lower explosion limit / Lower flammability limit	:	2 %(V)
Vapour pressure	:	No data available
Density	:	0,96 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.

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

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:

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

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

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

Amines, N-C10–C16-alkyltrimethylenedi-, reaction products with chloroacetic acid (CAS: 139734-65-9):

Acute oral toxicity	:	LD50 Oral (Rat): > 660 mg/kg
Acute dermal toxicity	:	LD50 Dermal (Rat): > 400 mg/kg Method: OECD Test Guideline 402

Skin corrosion/irritation

Product:

Result	:	No skin irritation

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-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

Amines, N-C10–C16-alkyltrimethylenedi-, reaction products with chloroacetic acid (CAS: 139734-65-9):

Species	:	Rabbit
Exposure time	:	4 h
Method	:	OECD Test Guideline 404
Result	:	Corrosive after 4 hours or less of exposure
GLP	:	yes

Serious eye damage/eye irritation

Product:

Species	:	Chicken eye
Method	:	OECD Test Guideline 438
Result	:	Irritating to eyes.
GLP	:	yes

Components:

Ethanol (CAS: 64-17-5):

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

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

Amines, N-C10–C16-alkyltrimethylenedi-, reaction products with chloroacetic acid (CAS: 139734-65-9):

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.
Result	:	Does not cause respiratory sensitisation.

Components:

Ethanol (CAS: 64-17-5):

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

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

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

Carcinogenicity

No data available

Reproductive toxicity

No data available

STOT - single exposure

No data available

STOT - repeated exposure

Components:

Amines, N-C10–C16-alkyltrimethylenedi-, reaction products with chloroacetic acid (CAS: 139734-65-9):

Assessment	:	May cause damage to organs through prolonged or repeated exposure.

Repeated dose toxicity

No data available

Aspiration toxicity

No data available

Experience with human exposure

No data available

Toxicology, Metabolism, Distribution

No data available

Neurological effects

No data available

12. ECOLOGICAL INFORMATION

Ecotoxicity

Components:

Ethanol (CAS: 64-17-5):

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 11,2 g/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 (Selenastrum capricornutum (green algae)): 5.000 mg/l Exposure time: 7 d

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

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 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

Amines, N-C10–C16-alkyltrimethylenedi-, reaction products with chloroacetic acid (CAS: 139734-65-9):

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 207,4 µg/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)): 0,0333 mg/l Exposure time: 48 h Test Type: semi-static test Method: OECD Test Guideline 202
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (green algae)): 0,0237 mg/l Exposure time: 72 h Test Type: static test Method: OECD Test Guideline 201
M-Factor (Acute aquatic toxicity)	:	10
Toxicity to fish (Chronic toxicity)	:	NOEC: 0,0523 mg/l Exposure time: 28 d Species: Oncorhynchus mykiss (rainbow trout)
Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity)	:	NOEC: 2,4 µg/l Exposure time: 21 d Species: Daphnia magna (Water flea) Method: OECD Test Guideline 211
M-Factor (Chronic aquatic toxicity)	:	1

Persistence and degradability

Product:

Biodegradability	:	Remarks: Expected to be ultimately biodegradable

Components:

Ethanol (CAS: 64-17-5):

Biodegradability	:	Result: Readily biodegradable.

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

Biodegradability	:	Result: Readily biodegradable.

Amines, N-C10–C16-alkyltrimethylenedi-, reaction products with chloroacetic acid (CAS: 139734-65-9):

Biodegradability	:	aerobic Result: Readily biodegradable.

Biodegradation: 94 %
Exposure time: 28 d
Method: OECD Test Guideline 301A

anaerobic
Result: Not readily biodegradable.
Biodegradation: 0 %
Exposure time: 60 d
Method: OECD Test Guideline 311

Bioaccumulative potential

Components:

Ethanol (CAS: 64-17-5):

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

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

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

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

Partition coefficient: n-octanol/water : log Pow: 0,2

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 3175
Proper shipping name	:	SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (ethanol, 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. (ethanol, 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. (ethanol, 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. (ethanol, 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

Labelling

Symbol(s)	:	F Xi
Risk phrase(s)	:	R11 Highly flammable. R36 Irritating to eyes. R67 Vapours may cause drowsiness and dizziness.
Safety phrase(s)	:	S22 Do not breathe dust. S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S33 Take precautionary measures against static discharges. S60 This material and its container must be disposed of as hazardous waste.

International Regulations

16. OTHER INFORMATION

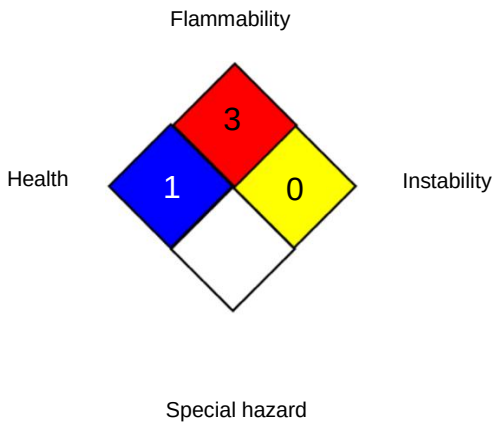
Safety datasheet sections which have been updated:

13. Disposal considerations

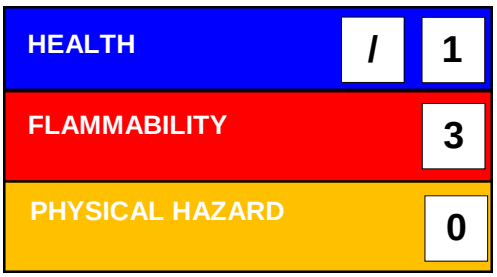
Further information

Bacillol 30 Tissues

NFPA:



HMIS® IV:



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 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