

SAFETY DATA SHEET

Bacillol 30 Sensitive Foam

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1. PRODUCT AND COMPANY IDENTIFICATION

Product name : Bacillol 30 Sensitive Foam

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

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.

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

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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	>= 0,1 - < 0,25

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 plenty of water.

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

If swallowed : Rinse mouth.
Do NOT induce vomiting.

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 : Use personal protective equipment.
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 : 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).
Keep in suitable, closed containers for disposal.

7. HANDLING AND STORAGE

Advice on protection against fire and explosion : Take measures to prevent the build up of electrostatic charge.
Provide sufficient air exchange and/or exhaust in work rooms.

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

- Advice on safe handling : Use ventilation adequate to keep exposures below recommended exposure limits. See the safety datasheet.
Avoid contact with eyes.
- 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

- Respiratory protection : No personal respiratory protective equipment normally required.
- 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 : Handle in accordance with good industrial hygiene and safety practice.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : colourless
- Odour : alcohol-like
- pH : 7,5 - 8,5
- Boiling point/boiling range : > 80 °C
- Flash point : 31 °C

Method: ISO 3679

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Lower explosion limit / Lower flammability limit	: 2 %(V)
Vapour pressure	: No data available
Density	: 0,96 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	: 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

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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**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

Bacillo 30 Sensitive Foam**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**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

Bacillo 30 Sensitive Foam**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)): 11.200 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-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

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

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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

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 NOEC (Pseudokirchneriella subcapitata (green algae)): 0,00955 mg/l Exposure time: 72 h 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: 2,3 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
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Bacillo 30 Sensitive Foam**Components:****Ethanol (CAS: 64-17-5):**

Biodegradability : Result: Readily biodegradable.

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

Biodegradability : Result: rapidly 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

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: 0,25

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

Partition coefficient: n-octanol/water : log Pow: 3,82

Mobility in soil

No data available

Other adverse effects**Product:**

Adsorbed organic bound halogens (AOX) : Remarks: Product does not contain any organic halogens.

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.

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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.
(ethanol, propan-2-ol)
Class : 3
Packing group : III
Labels : 3
Hazard Identification Number : 30
Tunnel restriction code : (D/E)

UNRTDG

UN number : UN 1987
Proper shipping name : ALCOHOLS, N.O.S.
(ethanol, propan-2-ol)
Class : 3
Packing group : III
Labels : 3

IATA-DGR

UN/ID No. : UN 1987
Proper shipping name : Alcohols, n.o.s.
(ethanol, propan-2-ol)
Class : 3
Packing group : III
Labels : Flammable Liquids
Packing instruction (cargo aircraft) : 366
Packing instruction (passenger aircraft) : 355

IMDG-Code

UN number : UN 1987
Proper shipping name : ALCOHOLS, N.O.S.
(ethanol, propan-2-ol)
Class : 3
Packing group : III
Labels : 3
EmS Code : F-E, S-D
Marine pollutant : no

Transport in bulk according to IMO instruments

Not applicable for product as supplied.

Special precautions for user

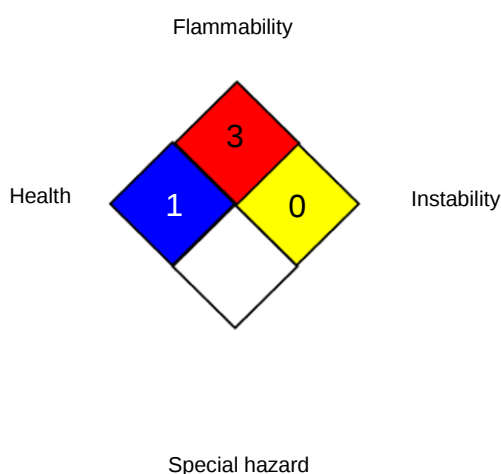
The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional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

15. REGULATORY INFORMATION

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

Bacillo 30 Sensitive Foam**International Regulations****16. OTHER INFORMATION****Safety datasheet sections which have been updated:**

13. Disposal considerations

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

AIIC - 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 In-

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ventory; 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