

SAFETY DATA SHEET

According to REACH Regulation (EC) No 1907/2006, as amended by UK REACH Regulations SI 2019/758

Bacillol Tissues

Version	Revision Date:	SDS Number:	Date of last issue: 27.06.2022
1.15	14.02.2023	R11505	Date of first issue: 06.06.2014

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1 Product identifier

Trade name : Bacillol Tissues

1.2 Relevant identified uses of the substance or mixture and uses advised against

Use of the Substance/Mixture : 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.

Recommended restrictions on use : Restricted to professional users.

1.3 Details of the supplier of the safety data sheet

Manufacturer, importer, supplier : BODE Chemie GmbH
Melanchthonstraße 27
22525 Hamburg (Germany)
Tel.: +49 (0)40 / 54 00 60

Paul HARTMANN Limited
Heywood Distribution Park, Heywood
P2, Parklands
OL10 2TT
Manchester
England

Responsible Department : info@uk.hartmann.info

1.4 Emergency telephone number

Emergency telephone number : NPIS 24-hour telephone helpline:
+44 (0)344 892 0111

SECTION 2: Hazards identification

2.1 Classification of the substance or mixture

Classification (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

Flammable liquids, Category 3 H226: Flammable liquid and vapour.

Serious eye damage, Category 1 H318: Causes serious eye damage.

Specific target organ toxicity - single exposure, Category 3, Central nervous system H336: May cause drowsiness or dizziness.


2.2 Label elements

Labelling (REGULATION (EC) No 1272/2008) as amended by GB-CLP Regulation, UK SI 2019/720, and UK SI 2020/1567)

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Hazard pictograms	:	
Signal word	:	Danger
Hazard statements	:	H226 Flammable liquid and vapour. H318 Causes serious eye damage. H336 May cause drowsiness or dizziness.
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 in accordance with local and national regulations.

Hazardous components which must be listed on the label:

Propan-1-ol (CAS: 71-23-8)
Propan-2-ol (CAS: 67-63-0)

2.3 Other hazards

This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

SECTION 3: Composition/information on ingredients

3.2 Mixtures

Components

Chemical name	CAS-No. EC-No. Index-No. REACH No.	Classification	Concentration (% w/w)
Propan-1-ol	71-23-8 200-746-9 603-003-00-0 01-2119486761-29	Flam. Liq. 2; H225 Eye Dam. 1; H318 STOT SE 3; H336 (Central nervous system)	>= 30 - < 50
Propan-2-ol	67-63-0 200-661-7 603-117-00-0 01-2119457558-25	Flam. Liq. 2; H225 Eye Irrit. 2; H319 STOT SE 3; H336 (Central nervous system)	>= 20 - < 30
Ethanol	64-17-5 200-578-6 603-002-00-5 01-2119457610-43	Flam. Liq. 2; H225 Eye Irrit. 2; H319	>= 1 - < 10

For explanation of abbreviations see section 16.

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SECTION 4: First aid measures

4.1 Description of 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.

4.2 Most important symptoms and effects, both acute and delayed

- Risks : Causes serious eye damage.
May cause drowsiness or dizziness.

4.3 Indication of any immediate medical attention and special treatment needed

- Treatment : For specialist advice physicians should contact the Poisons Information Service.

SECTION 5: Firefighting measures

5.1 Extinguishing media

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

5.2 Special hazards arising from the substance or mixture

- Hazardous combustion products : No hazardous combustion products are known

5.3 Advice for firefighters

- Special protective equipment for firefighters : Use personal protective equipment. In the event of fire, wear self-contained breathing apparatus.
- Further information : Standard procedure for chemical fires.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

- Personal precautions : Ensure adequate ventilation.
Remove all sources of ignition.

6.2 Environmental precautions

- Environmental precautions : Should not be released into the environment.

6.3 Methods and material for containment and cleaning up

- Methods for cleaning up : Use mechanical handling equipment.

6.4 Reference to other sections

For disposal considerations see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

- 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.

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Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Avoid contact with eyes. Keep away from food and drink.

7.2 Conditions for safe storage, including any incompatibilities

Requirements for storage areas and containers : Store in original container. Keep tightly closed.

7.3 Specific end use(s)

No data available

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Occupational Exposure Limits

Components	CAS-No.	Value type (Form of exposure)	Control parameters	Basis
Propan-1-ol	71-23-8	TWA	200 ppm 500 mg/m ³	GB EH40
		Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		
		STEL	250 ppm 625 mg/m ³	GB EH40
		Further information: Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity.		
Propan-2-ol	67-63-0	STEL	500 ppm 1,250 mg/m ³	GB EH40
		TWA	400 ppm 999 mg/m ³	GB EH40
Ethanol	64-17-5	TWA	1,000 ppm 1,920 mg/m ³	GB EH40

Derived No Effect Level (DNEL):

Substance name	End Use	Exposure routes	Potential health effects	Value
Propan-1-ol	Workers	Skin contact	Long-term systemic effects	136 mg/kg
	Workers	Inhalation	Long-term systemic effects	268 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	81 mg/kg
	Consumers	Inhalation	Long-term systemic effects	80 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	61 mg/kg
Propan-2-ol	Workers	Skin contact	Long-term systemic effects	888 mg/kg
	Workers	Inhalation	Long-term systemic effects	500 mg/m ³
	Consumers	Skin contact	Long-term systemic effects	319 mg/kg
	Consumers	Inhalation	Long-term systemic effects	89 mg/m ³
	Consumers	Ingestion	Long-term systemic effects	26 mg/kg
Ethanol	Workers	Inhalation	Long-term systemic effects	950 mg/m ³
	Workers	Skin contact	Long-term systemic effects	343 mg/kg
	Consumers	Inhalation	Long-term systemic	114 mg/m ³

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			effects	
	Consumers	Skin contact	Long-term systemic effects	206 mg/kg
	Consumers	Ingestion	Local effects	87 mg/kg

Predicted No Effect Concentration (PNEC):

Substance name	Environmental Compartment	Value
Propan-1-ol	Sewage treatment plant	96 mg/l
	Fresh water	6.83 mg/l
	Soil	1.49 mg/kg
Propan-2-ol	Fresh water	140.9 mg/l
	Soil	28 mg/kg
	Sewage treatment plant	2251 mg/l
Ethanol	Fresh water	0.96 mg/l
	Fresh water sediment	3.6 mg/kg
	Soil	0.63 mg/kg

8.2 Exposure controls

Personal protective equipment

Respiratory protection : No personal respiratory protective equipment normally required.

Protective measures : No special protective equipment required.

SECTION 9: Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance	: Liquid absorbed by inert carrier material
Colour	: colourless
Odour	: alcohol-like
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	: 0.855 g/cm ³ (20 °C)
Solubility(ies) Water solubility	: soluble

9.2 Other information

No data available

SECTION 10: Stability and reactivity

10.1 Reactivity

No decomposition if stored and applied as directed.

10.2 Chemical stability

The product is chemically stable.

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10.3 Possibility of hazardous reactions

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

10.4 Conditions to avoid

Conditions to avoid : Heat
Strong sunlight for prolonged periods.

10.5 Incompatible materials

Materials to avoid : None.

10.6 Hazardous decomposition products

No data available

SECTION 11: Toxicological information

11.1 Information on toxicological effects

Acute toxicity

Not classified based on available information.

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

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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 damage.

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

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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

May cause drowsiness or dizziness.

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

SECTION 12: Ecological information

12.1 Toxicity

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 (algae)): 1,150 mg/l
Exposure time: 48 h
Test Type: Growth inhibition

EC50 (Pseudokirchneriella subcapitata (green algae)): 9,170 mg/l

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	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

12.2 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.

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

Biodegradability : Result: rapidly biodegradable

Ethanol (CAS: 64-17-5):

Biodegradability : Result: Readily biodegradable.

12.3 Bioaccumulative potential

Components:

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

Partition coefficient: n- : log Pow: 0.25

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octanol/water

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

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

Product:

Assessment : This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.

12.6 Other adverse effects

Product:

Endocrine disrupting potential : The substance/mixture does not contain components considered to have endocrine disrupting properties according to REACH Article 57(f) or Commission Delegated regulation (EU) 2017/2100 or Commission Regulation (EU) 2018/605 at levels of 0.1% or higher.

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

SECTION 13: Disposal considerations

13.1 Waste treatment methods

Product : 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.

SECTION 14: Transport information

14.1 UN number

ADR : UN 3175

RID : UN 3175

IMDG : UN 3175

IATA : UN 3175

14.2 UN proper shipping name

ADR : SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S.

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	(propan-1-ol, propan-2-ol)
RID	: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (propan-1-ol, propan-2-ol)
IMDG	: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (propan-1-ol, propan-2-ol)
IATA	: Solids containing flammable liquid, n.o.s. (propan-1-ol, propan-2-ol)

14.3 Transport hazard class(es)

ADR	: 4.1
RID	: 4.1
IMDG	: 4.1
IATA	: 4.1

14.4 Packing group

ADR	
Packing group	: II
Classification Code	: F1
Hazard Identification Number	: 40
Labels	: 4.1
Tunnel restriction code	: (E)
Limited quantity (LQ)	: 1.00 KG

RID	
Packing group	: II
Classification Code	: F1
Hazard Identification Number	: 40
Labels	: 4.1
Limited quantity (LQ)	: 1.00 KG

IMDG	
Packing group	: II
Labels	: 4.1
EmS Code	: F-A, S-I
Limited quantity (LQ)	: 1.00 KG

IATA (Cargo)	
Packing instruction (cargo aircraft)	: 448
Packing instruction (LQ)	: Y441
Packing group	: II
Labels	: Flammable Solid

IATA (Passenger)	
Packing instruction (passenger aircraft)	: 445
Packing instruction (LQ)	: Y441
Packing group	: II
Labels	: Flammable Solid

14.5 Environmental hazards

ADR	
Environmentally hazardous	: no
RID	
Environmentally hazardous	: no
IMDG	
Marine pollutant	: no

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14.6 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.

14.7 Transport in bulk according to Annex II of Marpol and the IBC Code

Not applicable for product as supplied.

SECTION 15: Regulatory information

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

Relevant EU provisions transposed through retained EU law

UK REACH List of restrictions (Annex 17)	:	Conditions of restriction for the following entries should be considered: Number on list 3
UK REACH Candidate list of substances of very high concern (SVHC) for Authorisation	:	Not applicable
The Persistent Organic Pollutants Regulations (retained Regulation (EU) 2019/1021 as amended for Great Britain)	:	Not applicable
Regulation (EC) No 1005/2009 on substances that deplete the ozone layer	:	Not applicable
UK REACH List of substances subject to authorisation (Annex XIV)	:	Not applicable
GB Export and import of hazardous chemicals - Prior Informed Consent (PIC) Regulation	:	Not applicable
Control of Major Accident Hazards Regulations 2015 (COMAH)	P5c	FLAMMABLE LIQUIDS
Volatile organic compounds	:	Directive 2010/75/EU of 24 November 2010 on industrial emissions (integrated pollution prevention and control) Volatile organic compounds (VOC) content: 74.73 %

Other regulations:

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to new and expectant mothers at work contained in Regulation 16 to 18) and of the Pregnant Workers Directive 92/85/EEC.

Take note of The Management of Health and Safety at Work Regulations 1999 (requirements relating to protection of young people at work contained in Regulation 19) and of Directive 94/33/EC on the protection of young people at work.

The components of this product are reported in the following inventories:

TSCA : All substances listed as active on the TSCA inventory

15.2 Chemical safety assessment

A Chemical Safety Assessment is not required for this substance when it is used in the specified applications.

SECTION 16: Other information

Full text of H-Statements

H225	:	Highly flammable liquid and vapour.
H318	:	Causes serious eye damage.

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H319 : Causes serious eye irritation.
H336 : May cause drowsiness or dizziness.

Full text of other abbreviations

Eye Dam. : Serious eye damage
Eye Irrit. : Eye irritation
Flam. Liq. : Flammable liquids
STOT SE : Specific target organ toxicity - single exposure
GB EH40 : UK. EH40 WEL - Workplace Exposure Limits
GB EH40 / TWA : Long-term exposure limit (8-hour TWA reference period)
GB EH40 / STEL : Short-term exposure limit (15-minute reference period)

ADN - European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways; ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; AIIC - Australian Inventory of Industrial Chemicals; ASTM - American Society for the Testing of Materials; bw - Body weight; CLP - Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008; CMR - Carcinogen, Mutagen or Reproductive Toxicant; DIN - Standard of the German Institute for Standardisation; DSL - Domestic Substances List (Canada); ECHA - European Chemicals Agency; EC-Number - European Community number; 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; 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; NO(A)EC - No Observed (Adverse) Effect Concentration; NO(A)EL - No Observed (Adverse) Effect Level; NOELR - No Observable Effect Loading Rate; 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; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SADT - Self-Accelerating Decomposition Temperature; SDS - Safety Data Sheet; SVHC - Substance of very high concern; TCSI - Taiwan Chemical Substance Inventory; 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

Further information

Classification of the mixture:

Flam. Liq. 3 : H226
Eye Dam. 1 : H318
STOT SE 3 : H336

Classification procedure:

Based on product data or assessment
Calculation method
Calculation method

Safety datasheet sections which have been updated:

2. Hazards identification

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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