

Meliseptol Foam pure / fresh

Safety Data Sheet

according to UK REACH Regulation

Issue date: 19/01/2023

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Supersedes: 28/05/2020

Version: 2.1

SDS No: 00056-0328

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

1.1. Product identifier

Product form : Mixture
Product name : Meliseptol Foam pure / fresh

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

1.2.1. Relevant identified uses

Use of the substance/mixture : Rapid disinfectant for small surfaces / for medical devices

1.2.2. Uses advised against

No additional information available

1.3. Details of the supplier of the safety data sheet

Manufacturer

B. Braun Medical AG
Seesatz 17
CH-6204 Sempach - Switzerland
T +41 (0) 58 / 258 50 00
info.bbmch@bbraun.com

E-mail address of competent person responsible for the SDS: sds@gbk-ingelheim.de

Supplier

B. Braun Medical Ltd.
Thornccliffe Park Estate, Brookdale Road
Sheffield S35 2PW, UK - Medical Information Department
T +44 (0)114 225 9000
medinfo.bbmuk@bbraun.com

1.4. Emergency telephone number

Emergency number : INTERNATIONAL: +49 - (0) 6132 - 84463, GBK GmbH (24h - 7d/w - 365d/a)
In England and Wales: NHS 111 In Scotland: NHS 24 - dial 111

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

Classification according to GB CLP Regulation

Flammable liquids, Category 3 H226

Serious eye damage/eye irritation, Category 1 H318

Full text of H- and EUH-statements: see section 16

Adverse physicochemical, human health and environmental effects

Flammable liquid and vapour. Causes serious eye damage.

2.2. Label elements

Labelling according to GB CLP Regulation

Hazard pictograms (CLP) :



GHS02

GHS05

Signal word (CLP) :

Danger

Contains :

Propan-1-ol

Hazard statements (CLP) :

H226 - Flammable liquid and vapour.

H318 - Causes serious eye damage.

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Precautionary statements (CLP) : P210 - Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P261 - Avoid breathing vapours.
P280 - Wear eye protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a doctor, a POISON CENTER.
P501 - Dispose of contents and container to an approved waste disposal plant.

Labelling according to: exemption for packages of a capacity of 125ml or less

Hazard pictograms (CLP) :



GHS02

GHS05

Signal word (CLP) : Danger
Hazardous ingredients : Propan-1-ol
Hazard statements (CLP) : H318 - Causes serious eye damage.
Precautionary statements (CLP) : P280 - Wear eye protection.
P305+P351+P338 - IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P310 - Immediately call a doctor, a POISON CENTER.
P261 - Avoid breathing vapours.

2.3. Other hazards

This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII
This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII
Contains no PBT/vPvB substances $\geq 0.1\%$ assessed in accordance with REACH Annex XIII

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Comments : Alcoholic solution

| Name | Product identifier | % | Classification according to GB CLP Regulation |
|----------------------------------|---|--------|---|
| Propan-1-ol | (CAS-No.) 71-23-8 (EC-No.) 200-746-9 (EC Index-No.) 603-003-00-0 (REACH-no) 01-2119486761-29 | < 20 | Flam. Liq. 2, H225 Eye Dam. 1, H318 STOT SE 3, H336 |
| Didecyldimethylammonium chloride | (CAS-No.) 7173-51-5 (EC-No.) 230-525-2 (EC Index-No.) 612-131-00-6 (REACH-no) 01-2119945987-15 | < 0,25 | Acute Tox. 3 (Oral), H301 (ATE=238 mg/kg bodyweight) Skin Corr. 1B, H314 Aquatic Acute 1, H400 (M=10) Aquatic Chronic 2, H411 |

Full text of H- and EUH-statements: see section 16

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SECTION 4: First aid measures

4.1. Description of first aid measures

| | |
|---------------------------------------|---|
| First-aid measures general | : Data of item 4 do partly not refer to the use and the regular employing of the product (in this sense consult package leaflet and expert information), but to liberation of major amounts in case of accidents and irregularities. Take off immediately all contaminated clothing. Call a poison center or a doctor if you feel unwell. |
| First-aid measures after inhalation | : Remove person to fresh air and keep comfortable for breathing. If you feel unwell, seek medical advice. |
| First-aid measures after skin contact | : After contact with skin, wash immediately with plenty of water. Get medical advice if skin irritation persists. |
| First-aid measures after eye contact | : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist. |
| First-aid measures after ingestion | : Immediately give plenty of water. Rinse mouth. Never give anything by mouth to an unconscious person. Call a physician immediately. Do not induce vomiting without medical advice. |

4.2. Most important symptoms and effects, both acute and delayed

| | |
|------------------------------------|---------------------------|
| Symptoms/effects after eye contact | : Serious damage to eyes. |
|------------------------------------|---------------------------|

4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

SECTION 5: Firefighting measures

5.1. Extinguishing media

| | |
|--------------------------------|--|
| Suitable extinguishing media | : Water spray. Dry powder. Alcohol resistant foam. Carbon dioxide. |
| Unsuitable extinguishing media | : high volume water jet. |

5.2. Special hazards arising from the substance or mixture

| | |
|--|---|
| Fire hazard | : Flammable liquid and vapour. |
| Explosion hazard | : Product is not explosive. Explosive vapour/air mixtures may be formed. |
| Hazardous decomposition products in case of fire | : Carbon oxides (CO, CO ₂). Nitrous gasses. Chlorine compounds. |

5.3. Advice for firefighters

| | |
|--------------------------------|---|
| Precautionary measures fire | : Cool endangered containers with water spray jet. Eliminate all ignition sources if safe to do so. |
| Firefighting instructions | : Fight fire from safe distance and protected location. |
| Protection during firefighting | : Do not attempt to take action without suitable protective equipment. Self-contained breathing apparatus. Complete protective clothing. |
| Other information | : Vapours are heavier than air and may spread along floors. Fire residues and contaminated firefighting water must be disposed of in accordance with the local regulations. |

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

| | |
|------------------|----------------------------|
| General measures | : Remove ignition sources. |
|------------------|----------------------------|

6.1.1. For non-emergency personnel

| | |
|----------------------|--|
| Emergency procedures | : Ventilate spillage area. No open flames, no sparks, and no smoking. Avoid breathing vapours. Avoid contact with skin and eyes. |
|----------------------|--|

6.1.2. For emergency responders

| | |
|----------------------|---|
| Protective equipment | : Do not attempt to take action without suitable protective equipment. For further information refer to section 8: "Exposure controls/personal protection". |
|----------------------|---|

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6.2. Environmental precautions

Do not allow to enter drains or water courses. Avoid release to the environment.

6.3. Methods and material for containment and cleaning up

For containment : Dike and contain spill.
Methods for cleaning up : Take up liquid spill into absorbent material, e.g.: sand, earth, vermiculite. Notify authorities if product enters sewers or public waters.
Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

Refer to protective measures listed in sections 7 and 8. For further information refer to section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

Precautions for safe handling : Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking. Flammable vapours may accumulate in the container. Use explosion-proof equipment. Wear personal protective equipment. Use only outdoors or in a well-ventilated area. Avoid breathing vapours. Avoid contact with skin and eyes.
Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product.

7.2. Conditions for safe storage, including any incompatibilities

Technical measures : Ground/bond container and receiving equipment.
Storage conditions : Keep container tightly closed in a dry, cool and well-ventilated place.
Incompatible materials : alkali metals. alkaline earth metals. oxidizing materials.
Information on mixed storage : Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

See Section 1.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

| Propan-1-ol (71-23-8) | |
|---|---|
| United Kingdom - Occupational Exposure Limits | |
| Local name | Propan-1-ol |
| WEL TWA (OEL TWA) [1] | 500 mg/m ³ |
| WEL TWA (OEL TWA) [2] | 200 ppm |
| WEL STEL (OEL STEL) | 625 mg/m ³ |
| WEL STEL (OEL STEL) [ppm] | 250 ppm |
| Remark | Sk (Can be absorbed through the skin. The assigned substances are those for which there are concerns that dermal absorption will lead to systemic toxicity) |
| Regulatory reference | EH40/2005 (Fourth edition, 2020). HSE |

Monitoring methods

| | |
|-------------------------------|--|
| Monitoring methods | A specific exposure sampling method is not available |
| Biological monitoring methods | A specific exposure sampling method is not available |

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| Propan-1-ol (71-23-8) | |
|--|--------------------------|
| DNEL/DMEL (Workers) | |
| Acute - systemic effects, inhalation | 1723 mg/m ³ |
| Long-term - systemic effects, dermal | 136 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 268 mg/m ³ |
| DNEL/DMEL (General population) | |
| Acute - systemic effects, inhalation | 1036 mg/m ³ |
| Long-term - systemic effects, oral | 61 mg/kg bodyweight/day |
| Long-term - systemic effects, inhalation | 80 mg/m ³ |
| Long-term - systemic effects, dermal | 81 mg/kg bodyweight/day |
| PNEC (Water) | |
| PNEC aqua (freshwater) | 10 mg/l |
| PNEC aqua (marine water) | 1 mg/l |
| PNEC (Sediment) | |
| PNEC sediment (freshwater) | 22.8 mg/kg dwt |
| PNEC sediment (marine water) | 2.28 mg/kg dwt |
| PNEC (Soil) | |
| PNEC soil | 2.2 mg/kg dwt |
| PNEC (STP) | |
| PNEC sewage treatment plant | 96 mg/l |

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station.

Personal protective equipment:

Data of item 8 do partly not refer to the use and the regular employing of the product (in this sense consult package leaflet and expert information), but to liberation of major amounts in case of accidents and irregularities.

Hand protection:

This recommendation refers exclusively to the chemical compatibility and the lab test conforming to EN 374 carried out under lab conditions. Requirements can vary as a function of the use. Therefore it is necessary to adhere additionally to the recommendations given by the manufacturer of protective gloves

| Type | Material | Permeation | Thickness (mm) | Penetration | Standard |
|--|----------------|-------------------|----------------|-------------|------------|
| Chemically resistant protective gloves | Nitrile rubber | 6 (> 480 minutes) | 0,4 | | EN ISO 374 |

Eye protection:

Eyewash bottle with clean water (EN 15154)

| Type | Field of application | Characteristics | Standard |
|-----------------------------|---------------------------|-----------------|----------|
| Protective goggles (EN 166) | Liquid splashes may occur | | EN 166 |

Respiratory protection:

No personal breathing protective equipment is normally required

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| Device | Filter type | Condition | Standard |
|---|--|---|----------|
| Respiratory protective device with a gas filter | Type A - High-boiling (>65 °C) organic compounds | In the event of insufficient ventilation: | EN 14387 |

Environmental exposure controls:

Avoid release to the environment.

Other information:

Data of item 8 do partly not refer to the use and the regular employing of the product (in this sense consult package leaflet and expert information), but to liberation of major amounts in case of accidents and irregularities.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

| | |
|---|--|
| Physical state | : Liquid |
| Appearance | : Liquid. |
| Colour | : Colourless. |
| Odour | : characteristic. |
| Odour threshold | : No data available |
| pH | : 7 (5 %) |
| Relative evaporation rate (butylacetate=1) | : No data available |
| Melting point | : < -127 °C Propan-1-ol |
| Freezing point | : No data available |
| Boiling point | : 97 °C Propan-1-ol |
| Flash point | : 31.5 °C DIN 51755 |
| Auto-ignition temperature | : No data available |
| Decomposition temperature | : No data available |
| Flammability (solid, gas) | : Not applicable |
| Vapour pressure | : 28.2 hPa Propan-1-ol |
| Relative vapour density at 20°C | : No data available |
| Relative density | : No data available |
| Density | : 0.972 – 0.978 g/cm ³ |
| Solubility | : Miscible with water. |
| Log Pow | : No data available |
| Partition coefficient n-octanol/water (Log Kow) | : 0.2 Propan-1-ol |
| Viscosity, kinematic | : No data available |
| Viscosity, dynamic | : No data available |
| Explosive properties | : Product is not explosive. May form flammable/explosive vapour-air mixture. |
| Oxidising properties | : Oxidising properties. Not oxidising. |
| Explosive limits | : No data available |

9.2. Other information

| | |
|------------------------|--------------------------|
| VOC content | : < 20 % |
| Additional information | : Solvent content < 20 % |

SECTION 10: Stability and reactivity

10.1. Reactivity

Flammable liquid and vapour.

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

Reacts with: alkaline earth metals. alkali metals. oxidizing materials.

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10.4. Conditions to avoid

Vapour/air-mixtures are explosive at intense warming. Heating can release vapours which can be ignited.

10.5. Incompatible materials

alkali metals. alkaline earth metals. Oxidizing agent.

10.6. Hazardous decomposition products

No hazardous decomposition products known. Fire may produce: Carbon oxides (CO, CO₂). Nitrous gas. Chlorine compounds.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity (oral) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (dermal) : Not classified (Based on available data, the classification criteria are not met)
Acute toxicity (inhalation) : Not classified (Based on available data, the classification criteria are not met)

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

| | |
|---------------------------------|----------------------------------|
| LD50 oral rat | > 8000 mg/kg |
| LD50 dermal rabbit | 4032 mg/kg |
| LC50 Inhalation - Rat (Vapours) | > 33.8 mg/l/4h (OECD 403 method) |

Didecyldimethylammonium chloride (7173-51-5)

| | |
|--------------------|-----------------------------|
| LD50 oral rat | 238 mg/kg (OECD 401 method) |
| LD50 dermal rabbit | 3342 mg/kg |

Skin corrosion/irritation : Not classified (Based on available data, the classification criteria are not met)
pH: 7 (5 %)

Serious eye damage/irritation : Causes serious eye damage.
pH: 7 (5 %)

Respiratory or skin sensitisation : Not classified (Based on available data, the classification criteria are not met)

Germ cell mutagenicity : Not classified (Based on available data, the classification criteria are not met)

Carcinogenicity : Not classified (Based on available data, the classification criteria are not met)

Reproductive toxicity : Not classified (Based on available data, the classification criteria are not met)

STOT-single exposure : Not classified (Based on available data, the classification criteria are not met)

STOT-repeated exposure : Not classified (Based on available data, the classification criteria are not met)

Aspiration hazard : Not classified (Based on available data, the classification criteria are not met)

Potential adverse human health effects and symptoms : High concentration of vapours may induce: headache, nausea, dizziness. Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : No ecotoxicological data about this product are known.

Hazardous to the aquatic environment, short-term (acute) : Not classified

Hazardous to the aquatic environment, long-term (chronic) : Not classified

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| Propan-1-ol (71-23-8) | |
|------------------------|--------------------------------------|
| LC50 fish 1 | 4555 mg/l Pimephales promelas |
| EC50 Daphnia 1 | 3644 mg/l Daphnia magna (Water flea) |
| NOEC chronic crustacea | > 100 Daphnia magna (Water flea) |
| NOEC chronic algae | 1150 mg/l Chlorella sp. |

| Didecyldimethylammonium chloride (7173-51-5) | |
|--|--|
| LC50 fish 1 | 0.19 mg/l Pimephales promelas [US-EPA] |
| EC50 Daphnia 1 | 0.062 mg/l Daphnia magna (Water flea) [EPA-FIRA] |
| ErC50 algae | 0.026 mg/l Pseudokirchneriella subcapitata (OECD 201 method) |
| NOEC chronic fish | 0.032 mg/l Brachydanio rerio (zebra-fish) (OECD 210 method) [34 d] |
| NOEC chronic crustacea | 0.014 mg/l Daphnia magna (Water flea) [21 d] |

12.2. Persistence and degradability

| Meliseptol Foam pure / fresh | |
|-------------------------------|--|
| Persistence and degradability | The surfactant(s) contained in this preparation complies(comply) with the biodegradability criteria as laid down in Regulation (EC) No. 648/2004 on detergents. Data to support this assertion are held at the disposal of the competent authorities of the Member States and will be made available to them, at their direct request or at the request of a detergent manufacturer. |

12.3. Bioaccumulative potential

| Meliseptol Foam pure / fresh | |
|---|-----------------|
| Partition coefficient n-octanol/water (Log Kow) | 0.2 Propan-1-ol |

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

| Meliseptol Foam pure / fresh | |
|--|--|
| This substance/mixture does not meet the PBT criteria of REACH regulation, annex XIII | |
| This substance/mixture does not meet the vPvB criteria of REACH regulation, annex XIII | |

12.6. Other adverse effects

Other adverse effects : Slightly hazardous to water.
Additional information : Prevent entry to sewers and public waters

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Waste treatment methods : Dispose of contents/container in accordance with licensed collector's sorting instructions. Can be incinerated according to local regulations. Recycling is preferred to disposal or incineration.

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Product/Packaging disposal recommendations : Empty containers should be taken for local recycling, recovery or waste disposal. Contaminated packaging should be emptied as far as possible and after appropriate cleansing may be taken for reuse. Packaging that cannot be cleaned should be disposed of like the product.

European List of Waste (LoW) code : 07 06 04* - other organic solvents, washing liquids and mother liquors

SECTION 14: Transport information

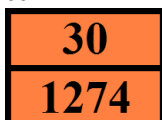
In accordance with ADR / IMDG / IATA / ADN / RID

| ADR | IMDG | IATA | ADN | RID |
|---|--|---------------------------------------|--|--|
| 14.1. UN number | | | | |
| UN 1274 | UN 1274 | UN 1274 | UN 1274 | UN 1274 |
| 14.2. UN proper shipping name | | | | |
| N-PROPANOL (PROPYL ALCOHOL, NORMAL) (SOLUTION) | n-PROPANOL (PROPYL ALCOHOL, NORMAL) (SOLUTION) | n-Propanol (SOLUTION) | n-PROPANOL (PROPYL ALCOHOL, NORMAL) (SOLUTION) | n-PROPANOL (PROPYL ALCOHOL, NORMAL) (SOLUTION) |
| Transport document description | | | | |
| UN 1274 N-PROPANOL (PROPYL ALCOHOL, NORMAL) (SOLUTION), 3, III, (D/E) | UN 1274 n-PROPANOL (PROPYL ALCOHOL, NORMAL) (SOLUTION), 3, III (23°C c.c.) | UN 1274 n-Propanol (SOLUTION), 3, III | UN 1274 n-PROPANOL (PROPYL ALCOHOL, NORMAL) (SOLUTION), 3, III | UN 1274 n-PROPANOL (PROPYL ALCOHOL, NORMAL) (SOLUTION), 3, III |
| 14.3. Transport hazard class(es) | | | | |
| 3 | 3 | 3 | 3 | 3 |
| | | | | |
| 14.4. Packing group | | | | |
| III | III | III | III | III |
| 14.5. Environmental hazards | | | | |
| Dangerous for the environment : No | Dangerous for the environment : No Marine pollutant : No | Dangerous for the environment : No | Dangerous for the environment : No | Dangerous for the environment : No |
| No supplementary information available | | | | |

14.6. Special precautions for user

Overland transport

Classification code (ADR) : F1
Limited quantities (ADR) : 5I
Excepted quantities (ADR) : E1
Packing instructions (ADR) : P001, IBC03, LP01, R001
Mixed packing provisions (ADR) : MP19
Transport category (ADR) : 3
Hazard identification number (Kemler No.) : 30
Orange plates :



Tunnel restriction code (ADR) : D/E
EAC code : •2Y

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Transport by sea

| | |
|---------------------------------|---------------------|
| Special provisions (IMDG) | : 223 |
| Limited quantities (IMDG) | : 5 L |
| Excepted quantities (IMDG) | : E1 |
| Packing instructions (IMDG) | : P001, LP01 |
| IBC packing instructions (IMDG) | : IBC03 |
| Tank instructions (IMDG) | : T2 |
| Tank special provisions (IMDG) | : TP1 |
| EmS-No. (Fire) | : F-E |
| EmS-No. (Spillage) | : S-D |
| Stowage category (IMDG) | : A |
| Flash point (IMDG) | : 23°C to 26°C c.c. |

Air transport

| | |
|--|--------|
| PCA Excepted quantities (IATA) | : E1 |
| PCA Limited quantities (IATA) | : Y344 |
| PCA limited quantity max net quantity (IATA) | : 10L |
| PCA packing instructions (IATA) | : 355 |
| PCA max net quantity (IATA) | : 60L |
| CAO packing instructions (IATA) | : 366 |
| CAO max net quantity (IATA) | : 220L |
| Special provisions (IATA) | : A3 |
| ERG code (IATA) | : 3L |

Inland waterway transport

| | |
|-----------------------------------|-------------|
| Classification code (ADN) | : F1 |
| Limited quantities (ADN) | : 5 L |
| Excepted quantities (ADN) | : E1 |
| Carriage permitted (ADN) | : T |
| Equipment required (ADN) | : PP, EX, A |
| Ventilation (ADN) | : VE01 |
| Number of blue cones/lights (ADN) | : 0 |

Rail transport

| | |
|------------------------------------|---------------------------|
| Classification code (RID) | : F1 |
| Limited quantities (RID) | : 5L |
| Excepted quantities (RID) | : E1 |
| Packing instructions (RID) | : P001, IBC03, LP01, R001 |
| Transport category (RID) | : 3 |
| Hazard identification number (RID) | : 30 |

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

Not applicable

SECTION 15: Regulatory information

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

15.1.1. EU-Regulations

Contains no substance(s) listed on REACH Annex XVII (Restriction Conditions)

Contains no substance(s) listed on the REACH Candidate List

Contains no substance(s) listed on REACH Annex XIV (Authorisation List)

Contains substance(s) listed on the PIC list (Regulation EU 649/2012 concerning the export and import of hazardous chemicals):

Didecyldimethylammonium chloride (7173-51-5)

Contains no substance(s) listed on the POP list (Regulation EU 2019/1021 on persistent organic pollutants)

VOC content : < 20 %

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Directive 2012/18/EU (SEVESO III)

| Seveso III Part I (Categories of dangerous substances) | Qualifying quantity (tonnes) | |
|--|------------------------------|------------|
| | Lower-tier | Upper-tier |
| P5c FLAMMABLE LIQUIDS Flammable liquids, Categories 2 or 3 not covered by P5a and P5b | 5000 | 50000 |

15.1.2. National regulations

No additional information available

15.2. Chemical safety assessment

No chemical safety assessment has been carried out

SECTION 16: Other information

| Indication of changes: |
|---|
| All chapters have been modified since the previous version. |

| Abbreviations and acronyms: | |
|-----------------------------|---|
| ADR | European Agreement concerning the International Carriage of Dangerous Goods by Road |
| ADN | European Agreement concerning the International Carriage of Dangerous Goods by Inland Waterways |
| IATA | International Air Transport Association |
| IMDG | International Maritime Dangerous Goods |
| RID | Regulations concerning the International Carriage of Dangerous Goods by Rail |
| DOT | Department of Transport |
| TDG | Transportation of Dangerous Goods |
| REACH | Registration, Evaluation, Authorisation and Restriction of Chemicals Regulation (EC) No 1907/2006 |
| GHS | Globally Harmonized System of Classification, Labelling and Packaging of Chemicals |
| IARC | International Agency for Research on Cancer |
| vPvB | Very Persistent and Very Bioaccumulative |
| PBT | Persistent Bioaccumulative Toxic |
| PNEC | Predicted No-Effect Concentration |
| CAS | CAS (Chemical Abstracts Service) number |
| IBC-Code | International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk |
| ATE | Acute Toxicity Estimate |
| CLP | Classification Labelling Packaging Regulation; Regulation (EC) No 1272/2008 |
| BCF | Bioconcentration factor |
| MARPOL 73/78 | MARPOL 73/78: International Convention for the Prevention of Pollution From Ships |
| ADG | Transport of Australian Dangerous Goods |

Other information

: Data of sections 4 to 8, as well as 10 to 12, do partly not refer to the use and the regular employing of the product (in this sense consult information on use and on product), but to liberation of major amounts in case of accidents and irregularities. The information describes exclusively the safety requirements for the product(s) and is based on the present level of our knowledge. The delivery specifications are contained in the corresponding product sheet. This data does not constitute a guarantee for the characteristics of the product(s) as defined by the legal warranty regulations.

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| Full text of H- and EUH-statements: | |
|-------------------------------------|--|
| Acute Tox. 3 (Oral) | Acute toxicity (oral), Category 3 |
| Aquatic Acute 1 | Hazardous to the aquatic environment – Acute Hazard, Category 1 |
| Aquatic Chronic 2 | Hazardous to the aquatic environment – Chronic Hazard, Category 2 |
| Eye Dam. 1 | Serious eye damage/eye irritation, Category 1 |
| Flam. Liq. 2 | Flammable liquids, Category 2 |
| Flam. Liq. 3 | Flammable liquids, Category 3 |
| H225 | Highly flammable liquid and vapour. |
| H226 | Flammable liquid and vapour. |
| H301 | Toxic if swallowed. |
| H314 | Causes severe skin burns and eye damage. |
| H318 | Causes serious eye damage. |
| H336 | May cause drowsiness or dizziness. |
| H400 | Very toxic to aquatic life. |
| H411 | Toxic to aquatic life with long lasting effects. |
| Skin Corr. 1B | Skin corrosion/irritation, Category 1, Sub-Category 1B |
| STOT SE 3 | Specific target organ toxicity – Single exposure, Category 3, Narcosis |

| Classification and procedure used to derive the classification for mixtures according to GB CLP Regulation | | |
|--|------|-----------------------|
| Flam. Liq. 3 | H226 | On basis of test data |
| Eye Dam. 1 | H318 | Calculation method |

This information is based on our current knowledge and is intended to describe the product for the purposes of health, safety and environmental requirements only. It should therefore not be construed as guaranteeing any specific property of the product.