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

1.1. Product identifier
Meliseptol Wipes ultra
UFI: YYHV-07N3-0007-8Q3X

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
Alcohol-free wipes for fast acting disinfection

1.3. Details of the supplier of the safety data sheet
Manufacturer
Company name: B. Braun Medical AG
Street: Seesatz 17
Place: CH-6204 Sempach
Responsible Department: Zentrale
Telephone: +41 (0) 58 / 258 50 00
E-Mail: info.bbmch@bbraun.com
Responsible for the safety data sheet: sds@gbk-ingelheim.de

Supplier
Company name: B. Braun Melsungen AG
Street: Carl-Braun-Straße 1
Place: D-34212 Melsungen
Responsible Department: Zentrale Service-Bereiche / Logistik und Supply Chain
Telephone: +49 (0) 5661 / 71-4422
E-Mail: logistics.service@bbraun.com

1.4. Emergency telephone 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
Regulation (EC) No. 1272/2008
Hazard categories:
Hazardous to the aquatic environment: Aquatic Chronic 3

Hazard Statements:
Harmful to aquatic life with long lasting effects.

2.2. Label elements
Regulation (EC) No. 1272/2008
Hazard statements
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P273 Avoid release to the environment.
P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P501 Dispose of contents/container to in accordance with local and national regulations.

2.3. Other hazards
According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Chemical characterization
Tissues impregnated with solution of quaternary ammonium compounds
### Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Quantity</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>GHS Classification</th>
</tr>
</thead>
<tbody>
<tr>
<td>68424-85-1</td>
<td>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</td>
<td>&lt; 1 %</td>
<td>270-325-2</td>
<td>01-2119965180-41</td>
<td>Met. Corr. 1, Acute Tox. 4, Skin Corr. 1B, Eye Dam. 1, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1, H290 H302 H314 H318 H400 H410</td>
<td></td>
</tr>
<tr>
<td>7173-51-5</td>
<td>Didecyldimethylammonium chloride</td>
<td>&lt; 1 %</td>
<td>230-525-2</td>
<td>612-131-00-6</td>
<td>01-2119945987-15</td>
<td>Acute Tox. 4, Skin Corr. 1B, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 2; H302 H314 H400 H411</td>
</tr>
</tbody>
</table>

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

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

**General information**
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.
If you feel unwell, seek medical advice.

**After inhalation**
Move to fresh air in case of accidental inhalation of fumes from overheating or combustion.
In the event of symptoms refer for medical treatment.

**After contact with skin**
No special measure necessary.

**After contact with eyes**
Rinse immediately with plenty of water, also under the eyelids, for at least 15 minutes.
If eye irritation persists, consult a specialist.

**After ingestion**
Rinse mouth.
Do not induce vomiting.
Consult a physician.

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

Contact with eyes may cause irritation.
May cause irritation of the mucous membranes.

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

Treat symptoms.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

**Suitable extinguishing media**
- Foam, carbon dioxide (CO2), dry chemical, water-spray.
- Fire-extinguishing activities according to surrounding.

**Unsuitable extinguishing media**
- Full water jet

#### 5.2. Special hazards arising from the substance or mixture

Fire may produce:
- Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

#### 5.3. Advice for firefighters

Use breathing apparatus with independent air supply.
Additional information

- Cool containers at risk with water spray jet.
- 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

- In case of vapour formation use respirator.
- Avoid contact with skin, eyes and clothing.
- Ensure adequate ventilation.

6.2. Environmental precautions

- Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up

- Take up mechanically and collect in suitable container for disposal.

6.4. Reference to other sections

- Observe protective instructions (see Sections 7 and 8).
- Information for disposal see section 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Advice on safe handling
  - Avoid contact with eyes and skin.

- Advice on protection against fire and explosion
  - No special protective measures against fire required.

7.2. Conditions for safe storage, including any incompatibilities

- Requirements for storage rooms and vessels
  - Keep container tightly closed in a dry, cool and well-ventilated place.

- Hints on joint storage
  - Incompatible with acids.

- Further information on storage conditions
  - Keep away from food, drink and animal feeding stuffs.

7.3. Specific end use(s)

- Alcohol-free wipes for fast acting disinfection

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

- Additional advice on limit values
  - This product does not contain any substances for which a Workplace Exposure Limit has been set in concentrations above the limits.

8.2. Exposure controls

- Appropriate engineering controls
  - Ensure adequate ventilation, especially in confined areas.

- Protective and hygiene measures
  - 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.
  - Wash hands before breaks and at the end of workday.
  - When using do not eat, drink or smoke.
  - Remove and wash contaminated clothes before re-use.
  - Avoid contact with eyes and skin.
### Eye/face protection
Safety goggles (EN 166).

### Hand protection
Also suitable are gloves made of:
- Polychloropren - CR (0.5 mm): Breakthrough time > 8 h
- Nitrile rubber/nitrile latex - NBR (0.35 mm): Breakthrough time > 8 h
- Butyl rubber - Butyl (0.5 mm): Breakthrough time > 8 h
- Fluoro-rubber - FKM (0.4 mm): Breakthrough time > 8 h
- Polyvinyl chloride - PVC (0.5 mm): Breakthrough time > 8 h

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.

### Skin protection
Long sleeved clothing (DIN EN ISO 6530)

### Respiratory protection
No personal respiratory protective equipment normally required.

## SECTION 9: Physical and chemical properties

### 9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Physical state</td>
<td>Liquid on inert carrier</td>
</tr>
<tr>
<td>Colour</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour</td>
<td>Characteristic</td>
</tr>
<tr>
<td>pH-Value (at 20 °C)</td>
<td>approx. 11.2</td>
</tr>
<tr>
<td>Changes in the physical state</td>
<td></td>
</tr>
<tr>
<td>Melting point</td>
<td>n.d.</td>
</tr>
<tr>
<td>Initial boiling point and range</td>
<td>n.d.</td>
</tr>
<tr>
<td>Sublimation point</td>
<td>n.a.</td>
</tr>
<tr>
<td>Flash point</td>
<td>n.a.</td>
</tr>
<tr>
<td>Sustaining combustion</td>
<td>Not sustaining combustion</td>
</tr>
<tr>
<td>Flammability</td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>n.a.</td>
</tr>
<tr>
<td>Gas</td>
<td>n.a.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>The product is not explosive.</td>
</tr>
<tr>
<td>Lower explosion limits</td>
<td>n.a.</td>
</tr>
<tr>
<td>Upper explosion limits</td>
<td>n.a.</td>
</tr>
<tr>
<td>Ignition temperature</td>
<td>n.a.</td>
</tr>
<tr>
<td>Auto-ignition temperature</td>
<td></td>
</tr>
<tr>
<td>Solid</td>
<td>n.a.</td>
</tr>
<tr>
<td>Gas</td>
<td>n.a.</td>
</tr>
<tr>
<td>Decomposition temperature</td>
<td>n.d.</td>
</tr>
<tr>
<td>Oxidizing properties</td>
<td>Not oxidising.</td>
</tr>
<tr>
<td>Vapour pressure</td>
<td>n.d.</td>
</tr>
<tr>
<td>(at 20 °C)</td>
<td></td>
</tr>
<tr>
<td>Density (at 20 °C)</td>
<td>approx. 1.0 g/cm³</td>
</tr>
<tr>
<td>Bulk density</td>
<td>n.a.</td>
</tr>
<tr>
<td>Water solubility</td>
<td>Miscible</td>
</tr>
</tbody>
</table>
Solubility in other solvents
n.d.
Partition coefficient: n.d.
Viscosity / dynamic:
(at 25 °C) n.d.
Viscosity / kinematic:
(at 25 °C) n.d.
Flow time: n.d.
Vapour density:
(at 20 °C) n.d.
Evaporation rate: n.d.
Solvent separation test: < 1 %
Solvent content: 0 %

9.2. Other information
Informations concern to liquid phase.

SECTION 10: Stability and reactivity

10.1. Reactivity
No decomposition if stored and applied as directed.

10.2. Chemical stability
Stable under normal conditions.

10.3. Possibility of hazardous reactions
Exothermic reaction with strong acids.

10.4. Conditions to avoid
To avoid thermal decomposition, do not overheat.

10.5. Incompatible materials
Acids.

10.6. Hazardous decomposition products
No hazardous decomposition products known.
Fire may produce:
Irritant/corrosive, flammable as well as toxic distillation gases (carbonization gases).

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
Based on available data, the classification criteria are not met.
No toxicological data available.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Exposure route</th>
<th>Dose</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>68424-85-1</td>
<td>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</td>
<td>oral</td>
<td>LD50</td>
<td>795</td>
<td>Rat</td>
<td></td>
</tr>
<tr>
<td>7173-51-5</td>
<td>Didecyldimethylammonium chloride</td>
<td>oral</td>
<td>LD50</td>
<td>238</td>
<td>Rat</td>
<td>OECD 401</td>
</tr>
<tr>
<td></td>
<td></td>
<td>dermal</td>
<td>LD50</td>
<td>3342</td>
<td>Rabbit</td>
<td></td>
</tr>
</tbody>
</table>

Irritation and corrosivity
Based on available data, the classification criteria are not met.
Sensitising effects  
Based on available data, the classification criteria are not met.

Carcinogenic/mutagenic/toxic effects for reproduction  
Based on available data, the classification criteria are not met.

STOT-single exposure  
Based on available data, the classification criteria are not met.

STOT-repeated exposure  
Based on available data, the classification criteria are not met.

Aspiration hazard  
Based on available data, the classification criteria are not met.

Additional information on tests  
Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.

Practical experience
Contact with eyes may cause irritation.  
May cause irritation of the mucous membranes.  
If appropriately handled and if in accordance with the general hygienic rules, no damages to health have become known.

SECTION 12: Ecological information

12.1. Toxicity  
Ecological data are not available.  
Harmful to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Aquatic toxicity</th>
<th>Dose</th>
<th>[h]</th>
<th>[d]</th>
<th>Species</th>
<th>Source</th>
<th>Method</th>
</tr>
</thead>
<tbody>
<tr>
<td>68424-85-1</td>
<td>Quaternary ammonium compounds, benzyl-C12-16-alkyldimethyl, chlorides</td>
<td>Acute fish toxicity</td>
<td>LC50 mg/l</td>
<td>0,085</td>
<td>96 h</td>
<td>Oncorhynchus mykiss</td>
<td>OECD 203)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50 mg/l</td>
<td>0,025</td>
<td>72 h</td>
<td>Selenastrum capricornutum</td>
<td>OECD 201</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50 mg/l</td>
<td>0,016</td>
<td>48 h</td>
<td>Daphnia</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crustacea toxicity</td>
<td>NOEC mg/l</td>
<td>0,025</td>
<td>21 d</td>
<td>Daphnia</td>
<td>OECD 201</td>
<td></td>
</tr>
<tr>
<td>7173-51-5</td>
<td>Didecyldimethylammonium chloride</td>
<td>Acute fish toxicity</td>
<td>LC50 mg/l</td>
<td>0,19</td>
<td>96 h</td>
<td>Pimephales promelas</td>
<td>US-EPA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute algae toxicity</td>
<td>ErC50 mg/l</td>
<td>0,026</td>
<td></td>
<td>Pseudokirchneriella subcapitata</td>
<td>OECD 201</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute crustacea toxicity</td>
<td>EC50 mg/l</td>
<td>0,062</td>
<td>48 h</td>
<td>Daphnia magna</td>
<td>EPA-FIFRA</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fish toxicity</td>
<td>NOEC mg/l</td>
<td>0,032</td>
<td>34 d</td>
<td>Danio rerio</td>
<td>OECD 210</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Crustacea toxicity</td>
<td>NOEC mg/l</td>
<td>0,014</td>
<td>21 d</td>
<td>Daphnia magna</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Acute bacteria toxicity</td>
<td>(11 mg/l)</td>
<td>3 h</td>
<td>Activated sludge</td>
<td>OECD 209</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

12.2. Persistence and degradability  
No data available
12.3. Bioaccumulative potential
No data available

12.4. Mobility in soil
No data available

12.5. Results of PBT and vPvB assessment
According to Regulation (EC) No 1907/2006 (REACH) none of the substances, contained in this product are a PBT / vPvB substance.

12.6. Other adverse effects
Low hazard to waters.

Further information
Do not discharge into surface waters/groundwater.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Disposal recommendations
Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.

List of Wastes Code - residues/unused products
070699 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; wastes not otherwise specified

Contaminated packaging
Re-using the polluted packaging materials is not allowed.
Packaging that cannot be cleaned should be disposed of like the product.

SECTION 14: Transport information

Land transport (ADR/RID)
14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Inland waterways transport (ADN)
14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Marine transport (IMDG)
14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

Air transport (ICAO-TI/IATA-DGR)
14.1. UN number: No dangerous good in sense of this transport regulation.
14.2. UN proper shipping name: No dangerous good in sense of this transport regulation.
14.3. Transport hazard class(es): No dangerous good in sense of this transport regulation.
14.4. Packing group: No dangerous good in sense of this transport regulation.

14.5. Environmental hazards

ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user

No dangerous good in sense of this transport regulation.

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

No dangerous good in sense of this transport regulation.

SECTION 15: Regulatory information

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

EU regulatory information

2004/42/EC (VOC): < 1 %

Information according to 2012/18/EU Not subject to 2012/18/EU (SEVESO III)

(SEVESO III):

Additional information

Regulation (EC) No 648/2004 (Regulation on detergents): -

Ingredients subject to the labelling obligation according to SCCP: -

National regulatory information

15.2. Chemical safety assessment

For this substance a chemical safety assessment has not been carried out.

SECTION 16: Other information

Abbreviations and acronyms

ADR = Accord européen relatif au transport international des marchandises Dangereuses par Route
RID = Règlement concernant le transport international ferroviaire de marchandises dangereuses
ADN = Accord européen relatif au transport international des marchandises dangereuses par voie de navigation intérieure
IMDG = International Maritime Code for Dangerous Goods
IATA/ICAO = International Air Transport Association / International Civil Aviation Organization
MARPOL = International Convention for the Prevention of Pollution from Ships
IBC-Code = International Code for the Construction and Equipment of Ships Carrying Dangerous Chemicals in Bulk
GHS = Globally Harmonized System of Classification and Labelling of Chemicals
REACH = Registration, Evaluation, Authorization and Restriction of Chemicals
CAS = Chemical Abstract Service
EN = European norm
ISO = International Organization for Standardization
DIN = Deutsche Industrie Norm
PBT = Persistent Bioaccumulative and Toxic
vPvB = Very Persistent and very Bio-accumulative
LD = Lethal dose
LC = Lethal concentration
EC = Effect concentration
IC = Median immobilisation concentration or median inhibitory concentration

Classification for mixtures and used evaluation method according to Regulation (EC) No. 1272/2008 [CLP]

<table>
<thead>
<tr>
<th>Classification</th>
<th>Classification procedure</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aquatic Chronic 3; H412</td>
<td>Calculation method</td>
</tr>
</tbody>
</table>

Relevant H and EUH statements (number and full text)

H290 May be corrosive to metals.
H302 Harmful if swallowed.
H314 Causes severe skin burns and eye damage.
H318 Causes serious eye damage.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H411 Toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.

Further Information
Data of items 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.
(n.a. = not applicable; n.d. = not determined)

(The data for the hazardous ingredients were taken respectively from the last version of the sub-contractors safety data sheet.)