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

1.1. Product identifier
Meliseptol HBV Tissues

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
Fast acting alcoholic disinfectant for small surfaces

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 Service-Bereiche / Logistik und Supply Chain
Telephone: +49 (0) 5661 / 71-4422
E-Mail: logistics.service@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)
England and Wales: NHS Direct - 0845 4647; Scotland: NHS 24 - 08454 24 24 24

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture according to 1272/2008/EC
Hazard categories:
Flammable liquid: Flam. Liq. 3
Serious eye damage/eye irritation: Eye Dam. 1
Specific target organ toxicity - single exposure: STOT SE 3

Hazard Statements:
Flammable liquid and vapour.
Causes serious eye damage.
May cause drowsiness or dizziness.

2.2. Label elements
Hazard components for labelling
Propan-1-ol
Signal word: Danger
Pictograms:

Hazard statements
H226 Flammable liquid and vapour.
H318 Causes serious eye damage.
H336 May cause drowsiness or dizziness.

Precautionary statements
P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
P260 Do not breathe vapour.
P280 Wear protective gloves/protective clothing/eye protection/face protection.
GB - EN

SECTION 3: Composition/information on ingredients

3.2. Mixtures
Chemical characterization
Tissues impregnated with n-propyl alcohol 70%

Hazardous components

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>EC No</th>
<th>Index No</th>
<th>REACH No</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>71-23-8</td>
<td>Propan-1-ol</td>
<td>200-746-9</td>
<td>603-003-00-0</td>
<td>01-2119486781-29</td>
<td>50 %</td>
</tr>
<tr>
<td>7173-51-5</td>
<td>Didecyldimethylammonium chloride</td>
<td>230-525-2</td>
<td>612-131-00-6</td>
<td>01-2119945987-15</td>
<td>&lt; 0,25 %</td>
</tr>
</tbody>
</table>

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

Further Information
Informations concern to liquid phase.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Remove contaminated soaked clothing immediately.
If you feel unwell, seek medical advice.

After inhalation
Move to fresh air in case of accidental inhalation of vapours.
In the event of symptoms refer for medical treatment.

After contact with skin
No specific precautions required.

After contact with eyes
Rinse thoroughly with plenty of water, also under the eyelids.
Seek medical treatment by eye specialist.

After ingestion
Ingestion is not considered a potential route of exposure.
Immediately give plenty of water (if possible charcoal slurry).
Seek medical treatment immediately.

4.2. Most important symptoms and effects, both acute and delayed
Causes serious eye damage.
May cause drowsiness or dizziness.

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
Alcohol-resistant foam, dry chemical, carbon dioxide (CO2), water-spray.
Unsuitable extinguishing media
Full water jet.

5.2. Special hazards arising from the substance or mixture
Fire may produce:
Carbon monoxide and carbon dioxide

5.3. Advice for firefighters
Use breathing apparatus with independent air supply.
Protective suit.

Additional information
Keep away from sources of ignition - No smoking.
Vapours are heavier than air and spread along ground.
The vapour/air mixture is explosive, even in empty, uncleaned receptacles.
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.
Ensure adequate ventilation.
Use personal protective clothing.
Keep away sources of ignition.

6.2. Environmental precautions
Do not discharge into the drains/surface waters/ground water.

6.3. Methods and material for containment and cleaning up
Shovel into 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
Ensure adequate ventilation.
When using do not eat, drink or smoke.
Avoid contact with eyes, skin or mucous membrane.

Advice on protection against fire and explosion
Keep product and empty container away from heat and sources of ignition.
Do not smoke.

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.

Advice on storage compatibility
Incompatible with:
Oxidizing agents
Alkaline metals and earth alkaline metals.

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

7.3. Specific end use(s)
Fast acting alcoholic disinfectant for small surfaces

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Exposure limits (EH40)

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Substance</th>
<th>ppm</th>
<th>mg/m³</th>
<th>fibres/ml</th>
<th>Category</th>
<th>Origin</th>
</tr>
</thead>
<tbody>
<tr>
<td>71-23-8</td>
<td>Propan-1-ol</td>
<td>200</td>
<td>500</td>
<td></td>
<td>TWA (8 h)</td>
<td>WEL</td>
</tr>
<tr>
<td></td>
<td></td>
<td>250</td>
<td>625</td>
<td></td>
<td>STEL (15 min)</td>
<td>WEL</td>
</tr>
</tbody>
</table>

8.2. Exposure controls

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

Protective and hygiene measures
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.

Eye/face protection
Tightly fitting goggles (EN 166).
Eye wash bottle with pure water (EN 15154).

Hand protection
Protective gloves resistant to chemicals made of nitrile, minimum coat thickness 0.4 mm, permeation resistance (wear duration) approx. 480 minutes, i.e. protective glove <Camatril Velours 730> made by www.kcl.de.
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.

Respiratory protection
In case of insufficient ventilation wear suitable respiratory equipment (gas filter type A) (EN 14387).

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid on inert carrier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>White</td>
</tr>
<tr>
<td>Odour:</td>
<td>Alcoholic</td>
</tr>
</tbody>
</table>

Changes in the physical state
Initial boiling point and boiling range: 89 °C
Flash point: 31 °C
Lower explosion limits: 2.1 vol. %
Upper explosion limits:
Ignition temperature: 405 °C
Vapour pressure: 18.7 hPa
(at 20 °C)
Density (at 20 °C): 0.91 g/cm³
Water solubility: Miscible
(at 20 °C)

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
Reactions with oxidizing agents.
Reactions with alkali metals.
Reactions with earth alkali metals.

10.4. Conditions to avoid
Vapour/air mixtures are explosive at intensive warming.
Heating can release vapours which can be ignited.

10.5. Incompatible materials
Oxidizing agents
Alkaline metals and earth alkaline metals.

10.6. Hazardous decomposition products
Carbon monoxide and carbon dioxide.

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.

Irritation and corrosivity
Causes serious eye damage.
Skin irritation: Not classified.

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

STOT - single exposure
May cause drowsiness or dizziness. (Propan-1-ol)

Severe effects after repeated or prolonged exposure
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.

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

Other observations
Inhalation of high vapour concentrations may cause symptoms like headache, dizziness, tiredness, nausea and vomiting.
Repeated or prolonged exposure may cause skin irritation and dermatitis, due to degreasing properties of the product.
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.

12.2. Persistence and degradability
Propan-1-ol
Readily biodegradable (to OECD criteria).

<table>
<thead>
<tr>
<th>CAS No</th>
<th>Chemical name</th>
<th>Method</th>
<th>Value</th>
<th>d</th>
<th>Source</th>
</tr>
</thead>
<tbody>
<tr>
<td>7173-51-5</td>
<td>Didecyldimethylammonium chloride</td>
<td>modif. Sturm-test</td>
<td>72 %</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Readily biodegradable.</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
12.3. Bioaccumulative potential
Propan-1-ol
Product has a low bioaccumulating potential.

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 substance.

12.6. Other adverse effects
Low hazard to waters.

Further information
Product is not allowed to be discharged into aquatic environment.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Advice on disposal
Can be incinerated, when in compliance with local regulations. Where possible recycling is preferred to disposal.

Waste disposal number of waste from residues/unused products
070604 WASTES FROM ORGANIC CHEMICAL PROCESSES; wastes from the MFSU of fats, grease, soaps, detergents, disinfectants and cosmetics; other organic solvents, washing liquids and mother liquors
Classified as hazardous waste.

Contaminated packaging
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.

SECTION 14: Transport information

Land transport (ADR/RID)

14.1. UN number: UN 3175
14.2. UN proper shipping name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Propan-1-ol)
14.3. Transport hazard class(es): 4.1
14.4. Packing group: II
Hazard label: 4.1

Classification code: F1
Limited quantity: 1 kg / 30 kg
Excepted quantity: E2
Transport category: 2
Hazard No: 40
Tunnel restriction code: E

Inland waterways transport (ADN)

14.1. UN number: UN 3175
14.2. UN proper shipping name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Propan-1-ol)
14.3. Transport hazard class(es): 4.1
14.4. Packing group: II
Hazard label: 4.1
Classification code: F1
Limited quantity: 1 kg / 30 kg
Excepted quantity: E2

Marine transport (IMDG)

14.1. UN number: UN 3175
14.2. UN proper shipping name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Propan-1-ol)
14.3. Transport hazard class(es): 4.1
14.4. Packing group: II
Hazard label: 4.1

Marine pollutant: No
Limited quantity: 1 kg / 30 kg
Excepted quantity: E2
EmS: F-A, S-I

Air transport (ICAO)

14.1. UN number: UN 3175
14.2. UN proper shipping name: SOLIDS CONTAINING FLAMMABLE LIQUID, N.O.S. (Propan-1-ol)
14.3. Transport hazard class(es): 4.1
14.4. Packing group: II
Hazard label: 4.1

Limited quantity Passenger: 5 kg
Passenger LQ: Y441
Excepted quantity: E2
IATA-packing instructions - Passenger: 445
IATA-max. quantity - Passenger: 15 kg
IATA-packing instructions - Cargo: 448
IATA-max. quantity - Cargo: 50 kg

14.5. Environmental hazards
ENVIRONMENTALLY HAZARDOUS: no

14.6. Special precautions for user
Handle in accordance with good industrial hygiene and safety practice.

14.7. Transport in bulk according to Annex II of MARPOL73/78 and the IBC Code
The transport takes place only in approved and appropriate packaging.

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): 50 % (Informations concern to liquid phase.)

National regulatory information
Employment restrictions:
Observe restrictions to employment for juvenils according to the ‘juvenile work protection guideline’ (94/33/EC). Observe employment restrictions under the Maternity Protection Directive (92/85/EEC) for expectant or nursing mothers.
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

Relevant H and EUH statements (number and full text)
H225 Highly flammable liquid and vapour.
H226 Flammable liquid and vapour.
H302 Harmful 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.

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-contractor's safety data sheet.)