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

1.1. Product identifier
Prontosan Wound Irrigation Solution

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use of the substance/mixture
Wound irrigation solution for cleaning, rinsing and moistening of acute and chronic skin wounds

1.3. Details of the supplier of the safety data sheet
B. Braun Melsungen AG
Carl-Braun-Straße 1
D-34212 Melsungen

B. Braun Medical AG
Seesatz 17
CH-6204 Sempach

Responsible Department
Zentrale Service-Bereiche/Logistik und Supply Chain
Telephone: +49 (0) 5661 / 71-4422
Emergency telephone :+49 (0) 6132 / 84463 (GBK GmbH, Ingelheim)
Responsible for the safety data sheet: sds@gbk-ingelheim.de

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture
R phrases:
Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Classification according to Regulation (EC) No. 1272/2008 [CLP]
Hazard categories:
Hazardous to the aquatic environment: Aquatic Chronic 3
Hazard Statements:
Harmful to aquatic life with long lasting effects.

2.2. Label elements
R phrases
52/53 Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

S phrases
61 Avoid release to the environment. Refer to special instructions / Safety data sheets.

Special labelling of certain mixtures
Contains Polyhexamethylene biguanide hydrochloride. May produce an allergic reaction.

Hazard statements
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements
P273 Avoid release to the environment.

Special labelling of certain mixtures
EUH208 Contains Polyhexamethylene biguanide hydrochloride. May produce an allergic reaction.

Additional advice on labelling
This product is not subject to labeling obligation according to art. 1 (5) g) of directive 1999/45/EG under the form of a medical product because it is used under body contact.
This product is not subject to labeling obligation according to art. 1 (5) d) of Regulation (EC) no. 12727/2008 under the form of a medical product because it is used under body contact.
Prontosan Wound Irrigation Solution

00056-0220

B. Braun Melsungen AG

Safety Data Sheet according to Regulation (EC) No 1907/2006
Revision date: 27.02.2015
Revision No: 1,1

2.3. Other hazards
Not known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

Chemical characterization
Aqueous solution

Hazardous components

<table>
<thead>
<tr>
<th>EC No</th>
<th>Chemical name</th>
<th>Classification according to Directive 67/548/EEC</th>
<th>Classification according to Regulation (EC) No. 1272/2008 [CLP]</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>CAS No</td>
<td>Classification according to Directive 67/548/EEC</td>
<td>Index No</td>
<td>Classification according to Regulation (EC) No. 1272/2008 [CLP]</td>
<td>REACH No</td>
</tr>
<tr>
<td>27083-27-8</td>
<td>T - Toxic, Xn - Harmful, Xi - Irritant, N - Dangerous for the environment</td>
<td>616-207-00-X</td>
<td>Carc. 2, Acute Tox. 4, STOT RE 1, Eye Dam. 1, Skin Sens. 1B, Aquatic Acute 1 (M-Factor = 10), Aquatic Chronic 1 (M-Factor = 10); H351 H302 H318 H317 H400 H410</td>
<td></td>
</tr>
<tr>
<td></td>
<td>R40-22-48/23-41-43-50-53</td>
<td></td>
<td></td>
<td>0,1 - &lt; 0,25 %</td>
</tr>
</tbody>
</table>

Full text of R-, H- and EUH-phrases: see section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General information
Remove and wash contaminated clothing before re-use.
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
Consult a doctor if skin irritation persists.

After contact with eyes
Rinse thoroughly with plenty of water, also under the eyelids.
If eye irritation persists, consult a specialist.

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

After ingestion
Rinse out mouth and give plenty of water to drink.
Seek medical treatment immediately.
Induce vomiting only upon the advice of a physician.

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
Product does not burn, fire-extinguishing activities according to surrounding.
Extinguishing media which must not be used for safety reasons
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
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder).
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
Keep container tightly closed.
When using do not eat, drink or smoke.
Avoid contact with eyes.

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 only in original container.

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

7.3. Specific end use(s)
Wound irrigation solution for cleaning, rinsing and moistening of acute and chronic skin wounds

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

8.2. Exposure controls
Protective and hygiene measures
When using do not eat, drink or smoke.
Avoid contact with the eyes.
Remove and wash contaminated clothing before re-use.

Respiratory protection
No special protective equipment required.

Hand protection
No special protective equipment required.
Eye protection
No special protective equipment required.

Skin protection
No special protective equipment required.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

<table>
<thead>
<tr>
<th>Physical state:</th>
<th>Liquid</th>
</tr>
</thead>
<tbody>
<tr>
<td>Colour:</td>
<td>Colourless</td>
</tr>
<tr>
<td>Odour:</td>
<td>Odourless</td>
</tr>
</tbody>
</table>

Test method
pH-Value (at 20 °C): approx. 6 - 8

Changes in the physical state
Flash point: n.a.
Lower explosion limits: n.a.
Upper explosion limits: n.a.
Ignition temperature: n.a.
Density (at 20 °C): approx. 1,0 g/cm³
Water solubility: Miscible
(at 20 °C)

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
No hazardous reactions known.

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

10.5. Incompatible materials
No materials to be especially mentioned.

10.6. Hazardous decomposition products
No hazardous decomposition products known.

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity
No toxicological data available.
Polyhexamethylene biguanide hydrochloride 20%
LD50/oral/rat: > 2000 mg/kg
Irritation and corrosivity
Skin irritation: Not classified.
Eye irritation: Not classified.
Sensitising effects
Not classified.
Severe effects after repeated or prolonged exposure
STOT - Single exposure: Not classified.
STOT - Repeated exposure: Not classified.
Aspiration hazard: Not classified.
Carcinogenic/mutagenic/toxic effects for reproduction
Carcinogenicity: Not classified. [Animal tests have shown that polyhexanide constitutes no carcinogenic or teratogenic risk to human being.]
Mutagenicity: Not classified.
Reproductive toxicity: Not classified.
Additional information on tests
Classification in compliance with the assessment procedure specified in the Regulation (EC) no 1272/2008.
Empirical data on effects on humans
Contact with eyes may cause irritation.

SECTION 12: Ecological information

12.1. Toxicity
Ecological data are not available.
Harmful to aquatic life with long lasting effects.
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
No data available.
12.6. Other adverse effects
Low hazard to waters.

Further information
Do not flush into surface water or sanitary sewer system.

SECTION 13: Disposal considerations

13.1. Waste treatment methods
Advice on disposal
Can be disposed of as a solid waste or burned in a suitable installation subject to local regulations.
Where possible recycling is preferred to disposal.
Waste disposal number of waste from 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
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

Other applicable information
No hazardous material as defined by the transport regulations.

SECTION 15: Regulatory information

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

EU regulatory information
1999/13/EC (VOC): 0 %

National regulatory information
Water contaminating class (D): 1 - slightly water contaminating

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

SECTION 16: Other information

Relevant R-phrases (Number and full text)
22 Harmful if swallowed.
40 Limited evidence of a carcinogenic effect.
41 Risk of serious damage to eyes.
43 May cause sensitisation by skin contact.
48/23 Toxic: danger of serious damage to health by prolonged exposure through inhalation.
50 Very toxic to aquatic organisms.
53 May cause long-term adverse effects in the aquatic environment.

Relevant H- and EUH-phrases (Number and full text)
H302 Harmful if swallowed.
H317 May cause an allergic skin reaction.
H318 Causes serious eye damage.
H351 Suspected of causing cancer.
H372 Causes damage to organs through prolonged or repeated exposure.
H400 Very toxic to aquatic life.
H410 Very toxic to aquatic life with long lasting effects.
H412 Harmful to aquatic life with long lasting effects.
EUH208 Contains Polyhexamethylene biguanide hydrochloride. May produce an allergic reaction.

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.)