SAFETY DATA SHEET
Electrode Contact Spray


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

Date issued 15.06.2016

1.1. Product identifier
Product name Electrode Contact Spray
Article no. 217 307 01, 217 307 02, 217 307 05

1.2. Relevant identified uses of the substance or mixture and uses advised against
Use categories nordic (UCN). 55 Others
Use of the substance/preparation The Electrode Contact Spray is intended to support the quality of electrical connection between devices and the human body for ECG acquisition with reusable suction electrodes.
The Electrode Contact Spray is intended for use on adult and pediatric patients.
The Electrode Contact Spray is intended for use by qualified medical personnel under the direct supervision of a licensed health-care practitioner.

1.3. Details of the supplier of the safety data sheet
Importer
Company name CareFusion Finland 320 Oy
Postal address Kuortaneenkatu 2
Postcode 00510
City Helsinki
Country Finland
Tel +358 (0)20 7871 090
Fax +358 (0)20 7871 099
E-mail asiakaspalvelu@carefusion.com
Website http://www.carefusion.fi
Enterprise no. 2353074-1

1.4. Emergency telephone number
Emergency telephone Poison Information Centre (in Finland), open 24 h daily: (09) 471977 or (09) 4711
Emergency telephone number: 112
Identification comments Please contact the Emergency Centre in your own country, e.g. 112 in European Union countries.

SECTION 2: Hazards identification

2.1. Classification of substance or mixture
Classification according to Flam. Liq. 3; H226
[CLP/GHS] Eye Irrit. 2; H319

2.2. Label elements
Hazard Pictograms (CLP)
Signal word: Warning

Hazard statements:
- H226 Flammable liquid and vapour.
- H319 Causes serious eye irritation.

Precautionary statements:
- P210 Keep away from heat, hot surfaces, sparks, open flames and other ignition sources. No smoking.
- P264 Wash hands thoroughly after handling.
- P305+P351+P338 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P403+P235 Store in a well-ventilated place. Keep cool.

Other Label Information (CLP):
- No labeling: Product is in compliance with the Medical Device Directive 93/42/EEC.

2.3. Other hazards
Other hazards: Not known.

SECTION 3: Composition/information on ingredients

3.2. Mixtures

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identification</th>
<th>Classification</th>
<th>Contents</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>CAS no.: 67-63-0</td>
<td>Flam. Liq. 2; H225</td>
<td>5 - 10 %</td>
</tr>
<tr>
<td></td>
<td>EC no.: 200-661-7</td>
<td>Eye Irrit. 2; H319</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Index no.: 603-117-00-0</td>
<td>STOT SE3; H336</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Registration number: 01-2119457558-25</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Description of the mixture: Water based propanol solution.

Substance comments:
The product does not contain other ingredients classified as hazardous to health or the environment at concentrations exceeding the concentration limits for listing such ingredients.
The product contains (according to INCI): Aqua, Isopropyl Alcohol, Sodium Chloride, Cetylpyridinium Chloride, Sodium Borate.
The full text for all hazard statements is displayed in section 16.

SECTION 4: First aid measures

4.1. Description of first aid measures

General:
Get medical advice/attention if you feel unwell.

Inhalation:
If symptoms occur, move exposed person to fresh air. Get medical attention if symptoms persist or are severe.

Skin contact:
Wash contaminated skin thoroughly with plenty of soap and water. If skin irritation occurs: Get medical advice/attention.

Eye contact:
Immediately flush eyes with plenty of water for several minutes, holding eyelids open. Remove contact lenses, if present and easy to do, and continue rinsing. If eye irritation persists: Get medical advice/attention.

Ingestion:
Do NOT induce vomiting. Rinse mouth with water and then drink plenty of water. Seek medical attention.

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

Acute symptoms and effects: Causes serious eye irritation.

Delayed symptoms and effects: None known.

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

Other Information:
Treat symptomatically.

SECTION 5: Firefighting measures
5.1. Extinguishing media
Suitable extinguishing media
Carbon dioxide (CO2) or water spray.

Improper extinguishing media
None known.

5.2. Special hazards arising from the substance or mixture
Fire and explosion hazards
Vapours are heavier than air and may accumulate close to the floor or in low-lying areas. Vapours may form explosive mixtures with air.

Hazardous combustion products
None known.

5.3. Advice for firefighters
Personal protective equipment
Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA).

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures
General measures
Ventilate area. Stop leak if safe to do so.

Personal protection measures
Avoid breathing vapours or mist. Avoid contact with skin or eyes. Wear appropriate personal protective equipment.

6.2. Environmental precautions
Environmental precautionary measures
Avoid release into drains, sewers or waterways.

6.3. Methods and material for containment and cleaning up
Cleaning method
Wash with clear water.

Containment
Do not dispose residues in sewage system.

6.4. Reference to other sections
Other instructions
Safe handling: see point 7.
Personal protective equipment: see point 8.
Waste disposal: see point 13.

SECTION 7: Handling and storage

7.1. Precautions for safe handling
Handling
Avoid breathing vapours or mist. Avoid contact with eyes.

Protective Safety Measures
Advice on general occupational hygiene
Handle in accordance with good industrial hygiene and safety practices. Wash hands before breaks and at the end of workday. Wash contaminated clothes before reuse.

7.2. Conditions for safe storage, including any incompatibilities
Storage
Storage: Keep in a cool and dry place. Do not expose to ultraviolet rays for a long time. Store away from all sources of heat or ignition. Store in a well-ventilated place. Keep container tightly closed.

7.3. Specific end use(s)
Specific use(s)
None reported.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters
Occupational Exposure limit values

<table>
<thead>
<tr>
<th>Substance</th>
<th>Identification</th>
<th>Value</th>
<th>TWA Year</th>
</tr>
</thead>
<tbody>
<tr>
<td>Propan-2-ol</td>
<td>CAS no.: 67-63-0 EC no.: 200-661-7 Index no.: 603-117-00-0 Registration number: 01-2119457558-25</td>
<td>8-hour TWA: 200 ppm 8-hour TWA: 500 mg/m3 15 min.: 250 ppm 15 min.: 620 mg/m3</td>
<td>2014</td>
</tr>
</tbody>
</table>
**DNEL / PNEC from substances**

<table>
<thead>
<tr>
<th>Substance</th>
<th>DNEL</th>
<th>PNEC</th>
</tr>
</thead>
</table>
| Propan-2-ol | **Group:** Consumer  
**Exposure route:** Inhalation  
**Exposure frequency:** Long term (repeated)  
**Type of effect:** Systemic effect  
**Value:** 89 mg/m³ | **Exposure route:** Soil  
**Value:** 28 mg/kg |
| | **Exposure route:** Dermal  
**Exposure frequency:** Long term (repeated)  
**Type of effect:** Systemic effect  
**Value:** 319 mg/kg | **Exposure route:** Saltwater sediments  
**Value:** 552 mg/kg |
| | **Exposure route:** Oral  
**Exposure frequency:** Long term (repeated)  
**Type of effect:** Systemic effect  
**Value:** 26 mg/kg | **Exposure route:** Freshwater sediments  
**Value:** 552 mg/kg |
| | **Group:** Worker  
**Exposure route:** Inhalation  
**Exposure frequency:** Long term (repeated)  
**Type of effect:** Systemic effect  
**Value:** 500 mg/m³ | **Exposure route:** Saltwater  
**Value:** 141 mg/l |
| | **Group:** Worker  
**Exposure route:** Dermal  
**Exposure frequency:** Long term (repeated)  
**Type of effect:** Systemic effect  
**Value:** 888 mg/kg | **Exposure route:** Freshwater  
**Value:** 141 mg/l |

**8.2. Exposure controls**

**Precautionary measures to prevent exposure**

<table>
<thead>
<tr>
<th>Technical measures to prevent exposure</th>
<th>Ensure adequate ventilation.</th>
</tr>
</thead>
</table>

**Respiratory protection**

| Respiratory protection | No protective measures required.  
Respiratory protection remarks | Avoid direct inhalation of the vapour/spray. |
|------------------------|-----------------------------------|

**Hand protection**

| Hand protection | No protective measures required.  
Hand protection remarks | |
|------------------|---------------------------------|

**Eye / face protection**

| Eye protection | No protective measures required.  
Eye protection remarks | |
|----------------|---------------------------------|

**Skin protection**

| Skin protection (except hands) | No protective measures required.  
Additional skin protection measures | Wash hands after finished work. |
|-------------------------------|---------------------------------|

**Appropriate environmental exposure control**

| Environmental exposure controls | Prevent entry into drains, sewers, waterways or soil. |
### 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.</td>
</tr>
<tr>
<td>Colour</td>
<td>Colorless. Clear.</td>
</tr>
<tr>
<td>Odour</td>
<td>Alcohol.</td>
</tr>
<tr>
<td>Comments, Odour limit</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>pH (as supplied)</td>
<td>Value: 6.5-7.5</td>
</tr>
<tr>
<td>Comments, Melting point / melting range</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Boiling point / boiling range</td>
<td>Value: 82-100 °C</td>
</tr>
<tr>
<td>Flash point</td>
<td>Value: 32 °C</td>
</tr>
<tr>
<td>Comments, Evaporation rate</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Flammability (solid, gas)</td>
<td>Not relevant.</td>
</tr>
<tr>
<td>Comments, Explosion limit</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Comments, Vapour pressure</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Comments, Vapour density</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Density</td>
<td>Value: 0.94 - 0.99 g/cm³</td>
</tr>
<tr>
<td>Solubility in water</td>
<td>Unknown.</td>
</tr>
<tr>
<td>Comments, Partition coefficient: n-octanol / water</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Spontaneous combustibility</td>
<td>Value: &gt; 450 °C</td>
</tr>
<tr>
<td>Comments, Decomposition temperature</td>
<td>Not determined.</td>
</tr>
<tr>
<td>Explosive properties</td>
<td>Not classified as explosive.</td>
</tr>
<tr>
<td>Oxidising properties</td>
<td>Not classified as oxidising.</td>
</tr>
</tbody>
</table>

#### 9.2. Other information

**Other physical and chemical properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Electrical Conductivity</td>
<td>&gt;5,0 mS/cm</td>
</tr>
</tbody>
</table>

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

Reactivity: Not reactive under normal use and storage conditions.

#### 10.2. Chemical stability

Stability: Stable under normal storage and handling conditions.

#### 10.3. Possibility of hazardous reactions

Possibility of hazardous reactions: None known.

#### 10.4. Conditions to avoid

Conditions to avoid: Keep away from heat, ignition sources and direct sunlight.

#### 10.5. Incompatible materials

Materials to avoid: Organic nitro compounds.

#### 10.6. Hazardous decomposition products

Hazardous decomposition products: Peroxides.

### SECTION 11: Toxicological information

#### 11.1. Information on toxicological effects

**Toxicological Information:**

Other toxicological data: The product is not classified as acutely toxic. There is no toxicological data available about the product as such.

**Toxicological data for substances**
### Potential acute effects

**Skin contact**
The product is not classified as irritant or corrosive to skin.

**Eye contact**
Causes serious eye irritation.

**Aspiration hazard**
The product is not classified as an aspiration hazard.

### Delayed effects / repeated exposure

**Sensitisation**
The product is not classified as a respiratory or skin sensitiser.

**STOT-single exposure**
The product is not classified as toxic to specific target organs at a single exposure.

**STOT-repeated exposure**
The product is not classified as toxic to specific target organs at repeated exposure.

### Carcinogenic, Mutagenic or Reprotoxic

**Carcinogenicity**
The product is not classified as a carcinogen.

**Mutagenicity**
The product is not classified as a mutagen.

**Reproductive toxicity**
The product is not classified as toxic to reproduction.

### Symptoms of Exposure

**Other Information**
No other health effects reported.

### SECTION 12: Ecological information

#### 12.1. Toxicity

**Aquatic, comments**
There is no ecotoxicological data available about the product as such.

**Toxicological data for substances**

<table>
<thead>
<tr>
<th>Substance</th>
<th>Value</th>
<th>Method of testing</th>
<th>Species</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Acute aquatic, fish</td>
<td>1400 mg/l</td>
<td>LC50</td>
<td>Lepomis macrochirus</td>
<td>96 h</td>
</tr>
<tr>
<td>Acute aquatic, algae</td>
<td>&gt; 1000 mg/l</td>
<td>IC50</td>
<td>Scenedesmus quadricauda</td>
<td>72 h</td>
</tr>
<tr>
<td>Acute aquatic, Daphnia</td>
<td>&gt; 13000 mg/l</td>
<td>EC50</td>
<td>Daphnia magna</td>
<td>48 h</td>
</tr>
</tbody>
</table>

#### 12.2. Persistence and degradability

**Comments, Biodegradability**
Biodegradable.

**Chemical oxygen demand (COD)**
Value: 200 mg O2/g

#### 12.3. Bioaccumulative potential

Bioaccumulative potential
No data available.

#### 12.4. Mobility in soil

Mobility
No information.

#### 12.5. Results of PBT and vPvB assessment
**12.6. Other adverse effects**

Environmental details, summation

There is no environmental data available about the product as such. The product is not classified as hazardous to the environment. Prevent entry into drains, sewers, waterways or soil.

### SECTION 13: Disposal considerations

#### 13.1. Waste treatment methods

| Product classified as hazardous waste | No |
| Other Information                  | Dispose of in compliance with local and national regulations. Avoid release to the environment. |

### SECTION 14: Transport information

#### 14.1. UN number

| ADR / RID / ADN | 1993 |
| RID            | 1993 |
| IMDG           | 1993 |
| ICAO/IATA      | 1993 |

#### 14.2. UN proper shipping name

| ADR | FLAMMABLE LIQUID, N.O.S. (Propanol solution) |
| RID | FLAMMABLE LIQUID, N.O.S. (Propanol solution) |
| IMDG| FLAMMABLE LIQUID, N.O.S. (Propanol solution) |
| ICAO/IATA | FLAMMABLE LIQUID, N.O.S. (Propanol solution) |

#### 14.3. Transport hazard class(es)

| ADR | 3 |
| RID | 3 |
| IMDG| 3 |
| ICAO/IATA | 3 |

#### 14.4. Packing group

| ADR | III |
| RID | III |
| IMDG| III |
| ICAO/IATA | III |

#### 14.5. Environmental hazards

| Comments | The product is not classified as hazardous to the environment. |

#### 14.6. Special precautions for user

| EmS | F-E, S-E |
| Special safety precautions for user | No special safety precautions. |

#### 14.7. Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

| Additional information. | Not applicable. |

### SECTION 15: Regulatory information

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

| Legislation and regulations | Product is in compliance with the Medical Device Directive 93/42/EEC. |
15.2. Chemical safety assessment

Chemical safety assessment  No

SECTION 16: Other information

Supplier's notes  Details given in this document are believed to be correct on our present state of knowledge. Whilst proper care has been taken in the preparation of this document, no liability for injury or damage resulting from its use is accepted.

Classification according to Regulation (EC) No 1272/2008 [CLP/GHS]  Flam. Liq. 3; H226; Eye Irrit. 2; H319;

List of relevant H-phrases (Section 2 and 3).  H226 Flammable liquid and vapour.  H336 May cause drowsiness or dizziness.  H225 Highly flammable liquid and vapour.  H319 Causes serious eye irritation.

Training advice  Read safety data sheet.

Abbreviations and acronyms used  DNEL: Derived No-Effect Level  EC50: Effective concentration: concentration which kills or immobilises 50 % of exposed organisms  IC50: Inhibitory concentration: concentration which reduces a biological function by 50 %  LC50: Lethal concentration 50 % (median lethal concentration): concentration which kills 50 % of exposed organisms  LD50: Lethal dose 50 % (median lethal dose): dose which kills 50 % of exposed organisms  PNEC: Predicted No-Effect Concentration

Important data sources used to construct the safety data sheet  SDS by product manufacturer  SDSs for product components  Decree on Concentrations known to be Hazardous (268/2014) (HTP-arvot 2014)

Version  1

Responsible for safety data sheet  CareFusion Finland 320 Oy