

# SAFETY DATA SHEET

## Electrode Contact Spray

The safety data sheet is in accordance with Commission Regulation (EU) 2015/830 of 28 May 2015 amending Regulation (EC) No 1907/2006 of the European Parliament and of the Council on the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

### 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 Regulation (EC) No 1272/2008 [CLP/GHS] Flam. Liq. 3; H226  
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

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

Substance	Identification	Value	TWA Year
Propan-2-ol	CAS no.: 67-63-0	8-hour TWA: 200 ppm	2014
	EC no.: 200-661-7	8-hour TWA: 500 mg/m <sup>3</sup>	
	Index no.: 603-117-00-0	15 min.: 250 ppm	
	Registration number: 01-2119457558-25	15 min.: 620 mg/m <sup>3</sup>	

**DNEL / PNEC from substances**

Substance	Propan-2-ol
DNEL	<b>Group:</b> Consumer <b>Exposure route:</b> Inhalation <b>Exposure frequency:</b> Long term (repeated) <b>Type of effect:</b> Systemic effect <b>Value:</b> 89 mg/m <sup>3</sup>
DNEL	<b>Group:</b> Consumer <b>Exposure route:</b> Dermal <b>Exposure frequency:</b> Long term (repeated) <b>Type of effect:</b> Systemic effect <b>Value:</b> 319 mg/kg
DNEL	<b>Group:</b> Consumer <b>Exposure route:</b> Oral <b>Exposure frequency:</b> Long term (repeated) <b>Type of effect:</b> Systemic effect <b>Value:</b> 26 mg/kg
DNEL	<b>Group:</b> Worker <b>Exposure route:</b> Inhalation <b>Exposure frequency:</b> Long term (repeated) <b>Type of effect:</b> Systemic effect <b>Value:</b> 500 mg/m <sup>3</sup>
DNEL	<b>Group:</b> Worker <b>Exposure route:</b> Dermal <b>Exposure frequency:</b> Long term (repeated) <b>Type of effect:</b> Systemic effect <b>Value:</b> 888 mg/kg
PNEC	<b>Exposure route:</b> Soil <b>Value:</b> 28 mg/kg
PNEC	<b>Exposure route:</b> Saltwater <b>Value:</b> 141 mg/l
PNEC	<b>Exposure route:</b> Saltwater sediments <b>Value:</b> 552 mg/kg
PNEC	<b>Exposure route:</b> Freshwater <b>Value:</b> 141 mg/l
PNEC	<b>Exposure route:</b> Freshwater sediments <b>Value:</b> 552 mg/kg

**8.2. Exposure controls****Precautionary measures to prevent exposure**

Technical measures to prevent exposure

Ensure adequate ventilation.

**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.

**Eye / face protection**

Eye protection

No protective measures required.

**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

Physical state	Liquid.
Colour	Colorless. Clear.
Odour	Alcohol.
Comments, Odour limit	Not relevant.
pH (as supplied)	<b>Value:</b> 6,5-7,5
Comments, Melting point / melting range	Not determined.
Boiling point / boiling range	<b>Value:</b> 82-100 °C
Flash point	<b>Value:</b> 32 °C
Comments, Evaporation rate	Not determined.
Flammability (solid, gas)	Not relevant.
Comments, Explosion limit	Not determined.
Comments, Vapour pressure	Not determined.
Comments, Vapour density	Not determined.
Density	<b>Value:</b> 0,94 - 0,99 g/cm <sup>3</sup>
Solubility in water	Unknown.
Comments, Partition coefficient: n-octanol / water	Not determined.
Spontaneous combustability	<b>Value:</b> > 450 °C
Comments, Decomposition temperature	Not determined.
Comments, Viscosity	Not determined.
Explosive properties	Not classified as explosive.
Oxidising properties	Not classified as oxidising.

### 9.2. Other information

#### Other physical and chemical properties

Physical and chemical properties	Electrical Conductivity: >5,0 mS/cm
----------------------------------	-------------------------------------

## 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

Substance	Propan-2-ol
LD50 oral	<b>Value:</b> 5045 mg/kg <b>Animal test species:</b> rat <b>Test reference:</b> RTECS
LD50 dermal	<b>Value:</b> 12800 mg/kg <b>Animal test species:</b> rabbit <b>Test reference:</b> RTECS
LC50 inhalation	<b>Value:</b> 72,6 mg/l <b>Animal test species:</b> rat <b>Duration:</b> 4 h <b>Test reference:</b> IUCLID

### 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

Substance	Propan-2-ol
Acute aquatic, fish	<b>Value:</b> 1400 mg/l <b>Method of testing:</b> LC50 ((ECOTOX-Database) <b>Species:</b> Lepomis macrochirus <b>Duration:</b> 96 h
Acute aquatic, algae	<b>Value:</b> > 1000 mg/l <b>Method of testing:</b> IC50 (IUCLID) <b>Species:</b> Scenedesmus quadricauda <b>Duration:</b> 72 h
Acute aquatic, Daphnia	<b>Value:</b> > 13000 mg/l <b>Method of testing:</b> EC50 (IUCLID) <b>Species:</b> Daphnia magna <b>Duration:</b> 48 h

### 12.2. Persistence and degradability

Comments, Biodegradability	Biodegradable.
Chemical oxygen demand (COD)	<b>Value:</b> 200 mg O <sub>2</sub> /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

PBT assessment results                      Chemical safety assessment has not been performed for the product, no information available about ingredients.

## 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 / RID / ADN                      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.

Additional information.                      Not applicable.

#### ADR / RID - Other information

Hazard no.                      30

## 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.

Product meets requirements for biocompatibility according ISO 10993.

## 15.2. Chemical safety assessment

Chemical safety assessment performed 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