



## Safety Data Sheet

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This Safety Data Sheet has been prepared in accordance with the Preparation of Safety Data Sheets for Hazardous Chemicals Code of Practice (Safe Work Australia, December 2011)

### SECTION 1: Identification

#### 1.1. Product identifier

NCE Red Dot Electrodes 2570, 2570-3, 2570-5

#### Product Identification Numbers

70-2007-5723-8

#### 1.2. Recommended use and restrictions on use

##### Recommended use

Electrocardio monitoring electrodes, 2570 is radiolucent.

For Professional use only.

#### 1.3. Supplier's details

<b>Address:</b>	3M Australia - Building A, 1 Rivett Road, North Ryde NSW 2113
<b>Telephone:</b>	136 136
<b>E Mail:</b>	productinfo.au@mmm.com
<b>Website:</b>	www.3m.com.au

#### 1.4. Emergency telephone number

EMERGENCY: 1800 097 146 (Australia only)

### SECTION 2: Hazard identification

This product is NOT classified as a hazardous chemical according to the Model Work Health and Safety Regulations, 2011, in accordance with applicable State and Territory legislation.

This product is an article and is not regulated by the Model Work Health and Safety Regulations (2011) because, it is not classified as hazardous. When used as recommended or under ordinary conditions, it should not present a health and safety hazard. However, use or processing of the product not in accordance with the product's recommendations or not under ordinary conditions may affect the performance of the product and may present potential health and safety hazards.

Refer to Section 14 of this Safety Data Sheets for product Dangerous Goods Classification.

#### 2.1. Classification of the substance or mixture

Not applicable.

**2.2. Label elements****Signal word**

Not applicable.

**Symbols**

Not applicable.

**Pictograms**

Not applicable

**Precautionary statements****Prevention:**

P280E

Wear protective gloves.

**2.3. Other assigned/identified product hazards**

None known.

**2.4. Other hazards which do not result in classification**

None known.

**SECTION 3: Composition/information on ingredients**

This material is a mixture.

<b>Ingredient</b>	<b>CAS Nbr</b>	<b>% by Weight</b>
Paper Liner	None	10 - 20
Sticky Gel	Mixture	5 - 15
Abrader	None	5 - 15
Eyelet	None	5 - 15
Foam Backing	None	10 - 15
Stud	None	10 - 15
Polyethylene Film	None	5 - 10
Acrylate Adhesive	Trade Secret	5 - 10
Polyethylene glycol dimethacrylate	None	< 2

**SECTION 4: First aid measures****4.1. Description of first aid measures****Inhalation**

No need for first aid is anticipated.

**Skin contact**

Wash with soap and water. If signs/symptoms develop, get medical attention.

**Eye contact**

Flush with large amounts of water. Remove contact lenses if easy to do. Continue rinsing. If signs/symptoms persist, get medical attention.

**If swallowed**

No need for first aid is anticipated.

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

No critical symptoms or effects. See Section 11.1, information on toxicological effects.

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

Not applicable

## SECTION 5: Fire-fighting measures

### 5.1. Suitable extinguishing media

In case of fire: Use a fire fighting agent suitable for ordinary combustible material such as water or foam to extinguish.

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

None inherent in this product.

#### Hazardous Decomposition or By-Products

##### Substance

Carbon monoxide.

Carbon dioxide.

##### Condition

During combustion.

During combustion.

### 5.3. Special protective actions for fire-fighters

No special protective actions for fire-fighters are anticipated.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

Not applicable. Ventilate the area with fresh air.

### 6.2. Environmental precautions

Not applicable. Avoid release to the environment.

### 6.3. Methods and material for containment and cleaning up

Not applicable. Sweep up. Seal the container.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

This product is considered to be an article which does not release or otherwise result in exposure to a hazardous chemical under normal use conditions.

### 7.2. Conditions for safe storage including any incompatibilities

Not applicable.

## SECTION 8: Exposure controls/personal protection

### 8.1 Control parameters

#### Occupational exposure limits

If a component is disclosed in section 3 but does not appear in the table below, an occupational exposure limit is not available for the component.

Ingredient	CAS Nbr	Agency	Limit type	Additional comments
Sticky Gel	Mixture	AIHA	TWA:10 mg/m <sup>3</sup>	
CAS NO SEQ117921	None	ACGIH	TWA(inhalable particulates):10 mg/m <sup>3</sup>	
CAS NO SEQ117922	None	ACGIH	TWA(respirable particles):3 mg/m <sup>3</sup>	

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

Australia OELs : Australia. Adopted National Exposure Standards for Atmospheric Contaminants in the Occupational Environment

CMRG : Chemical Manufacturer's Recommended Guidelines

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

CEIL: Ceiling

Sen: Sensitiser

Sk: Absorption through the skin may be a significant source of exposure.

## 8.2. Exposure controls

### 8.2.1. Engineering controls

No engineering controls required.

### 8.2.2. Personal protective equipment (PPE)

#### Eye/face protection

Eye protection not required.

#### Skin/hand protection

No chemical protective gloves are required.

#### Respiratory protection

Respiratory protection is not required.

## SECTION 9: Physical and chemical properties

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

Physical state	Solid.
Colour	White
Odour	Slight Odour
Odour threshold	<i>Not applicable.</i>
pH	<i>Not applicable.</i>
Melting point/Freezing point	<i>No data available.</i>
Boiling point/Initial boiling point/Boiling range	<i>Not applicable.</i>
Flash point	<i>Not applicable.</i>
Evaporation rate	<i>Not applicable.</i>
Flammability (solid, gas)	Not classified
Flammable Limits(LEL)	<i>Not applicable.</i>
Flammable Limits(UEL)	<i>Not applicable.</i>
Vapour pressure	<i>Not applicable.</i>
Vapor Density and/or Relative Vapor Density	<i>Not applicable.</i>
Density	<i>No data available.</i>
Relative density	<i>Not applicable.</i>
Water solubility	<i>Not applicable.</i>
Solubility- non-water	<i>Not applicable.</i>
Partition coefficient: n-octanol/water	<i>Not applicable.</i>
Autoignition temperature	<i>No data available.</i>
Decomposition temperature	<i>Not applicable.</i>
Viscosity/Kinematic Viscosity	<i>Not applicable.</i>
Volatile organic compounds (VOC)	<i>Not applicable.</i>
Percent volatile	<i>Not applicable.</i>
VOC less H2O & exempt solvents	<i>Not applicable.</i>

#### **Nanoparticles**

This material does not contain nanoparticles.

## **SECTION 10: Stability and reactivity**

### **10.1 Reactivity**

This material is considered to be non reactive under normal use conditions

### **10.2 Chemical stability**

Stable.

### **10.3. Conditions to avoid**

None known.

### **10.4. Possibility of hazardous reactions**

Hazardous polymerisation will not occur.

### **10.5 Incompatible materials**

None known.

### **10.6 Hazardous decomposition products**

<u>Substance</u>	<u>Condition</u>
None known.	

Under recommended usage conditions, hazardous decomposition products are not expected. Hazardous decomposition products may occur as a result of oxidation, heating, or reaction with another material.

## **SECTION 11: Toxicological information**

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. In addition, toxicological data on ingredients may not be reflected in the material classification and/or the signs and symptoms of exposure, because an ingredient may be present below the threshold for labelling, an ingredient may not be available for exposure, or the data may not be relevant to the material as a whole.

### **11.1 Information on Toxicological effects**

#### **Signs and Symptoms of Exposure**

**Based on test data and/or information on the components, this material may produce the following health effects:**

#### **Inhalation**

No health effects are expected. No known health effects.

#### **Skin contact**

No health effects are expected. Contact with the skin during product use is not expected to result in significant irritation.

#### **Eye contact**

No health effects are expected. Contact with the eyes during product use is not expected to result in significant irritation.

#### **Ingestion**

No health effects are expected. No known health effects.

#### **Additional information:**

This product, when used under reasonable conditions and in accordance with the directions for use, should not present a health hazard. However, use or processing of the product in a manner not in accordance with the product's directions for use may affect the performance of the product and may present potential health and safety hazards.

### Toxicological Data

If a component is disclosed in section 3 but does not appear in a table below, either no data are available for that endpoint or the data are not sufficient for classification.

#### Acute Toxicity

Name	Route	Species	Value
Overall product	Ingestion		No data available; calculated ATE >5,000 mg/kg
Polyethylene Film	Dermal		LD50 estimated to be > 5,000 mg/kg
Polyethylene Film	Ingestion	Rat	LD50 > 2,000 mg/kg
Sticky Gel	Dermal	Rabbit	LD50 > 20,000 mg/kg
Sticky Gel	Ingestion	Rat	LD50 32,770 mg/kg
Polyethylene glycol dimethacrylate	Dermal	Rabbit	LD50 15,500 mg/kg
Polyethylene glycol dimethacrylate	Ingestion	Rat	LD50 9,400 mg/kg

ATE = acute toxicity estimate

#### Skin Corrosion/Irritation

Name	Species	Value
Overall product	Rabbit	No significant irritation
Polyethylene Film	Professional judgement	No significant irritation
Sticky Gel	Rabbit	Minimal irritation
Polyethylene glycol dimethacrylate	Rabbit	Mild irritant

#### Serious Eye Damage/Irritation

Name	Species	Value
Sticky Gel	Rabbit	Mild irritant
Polyethylene glycol dimethacrylate	Rabbit	Moderate irritant

#### Skin Sensitisation

Name	Species	Value
Overall product	Guinea pig	Not classified
Sticky Gel	Guinea pig	Not classified
Polyethylene glycol dimethacrylate	Guinea pig	Not classified

#### Respiratory Sensitisation

For the component/components, either no data are currently available or the data are not sufficient for classification.

#### Germ Cell Mutagenicity

Name	Route	Value
Sticky Gel	In Vitro	Not mutagenic
Sticky Gel	In vivo	Not mutagenic

#### Carcinogenicity

Name	Route	Species	Value
Polyethylene Film	Not specified.	Multiple animal species	Some positive data exist, but the data are not sufficient for classification
Sticky Gel	Ingestion	Rat	Not carcinogenic

## Reproductive Toxicity

### Reproductive and/or Developmental Effects

Name	Route	Value	Species	Test result	Exposure Duration
Sticky Gel	Ingestion	Not classified for female reproduction	Rat	NOAEL 1,125 mg/kg/day	during gestation
Sticky Gel	Ingestion	Not classified for male reproduction	Rat	NOAEL 5699 +/-1341 mg/kg/day	5 days
Sticky Gel	Not specified.	Not classified for reproduction and/or development		NOEL N/A	
Sticky Gel	Ingestion	Not classified for development	Mouse	NOAEL 562 mg/animal/day	during gestation

## Target Organ(s)

### Specific Target Organ Toxicity - single exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sticky Gel	Inhalation	respiratory irritation	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
Polyethylene glycol dimethacrylate	Inhalation	respiratory irritation	Some positive data exist, but the data are not sufficient for classification	similar health hazards	NOAEL Not available	

### Specific Target Organ Toxicity - repeated exposure

Name	Route	Target Organ(s)	Value	Species	Test result	Exposure Duration
Sticky Gel	Inhalation	respiratory system	Not classified	Rat	NOAEL 1.008 mg/l	2 weeks
Sticky Gel	Ingestion	kidney and/or bladder   heart   endocrine system   hematopoietic system   liver   nervous system	Not classified	Rat	NOAEL 5,640 mg/kg/day	13 weeks

## Aspiration Hazard

For the component/components, either no data are currently available or the data are not sufficient for classification.

## Exposure Levels

Refer Section 8.1 Control Parameters of this Safety Data Sheet.

## Interactive Effects

Not determined.

## SECTION 12: Ecological information

The information below may not be consistent with the material classification in Section 2 if specific ingredient classifications are mandated by a competent authority. Additional information leading to material classification in Section 2 is available upon request. In addition, environmental fate and effects data on ingredients may not be reflected in this section because an ingredient is present below the threshold for labelling, an ingredient is not

expected to be available for exposure, or the data is considered not relevant to the material as a whole.

### 12.1. Toxicity

#### Acute aquatic hazard:

Not acutely toxic to aquatic life by GHS criteria.

#### Chronic aquatic hazard:

Not chronically toxic to aquatic life by GHS criteria.

No product test data available.

Material	CAS Number	Organism	Type	Exposure	Test endpoint	Test result
Sticky Gel	Mixture	Activated sludge	Experimental		EC50	>1,000 mg/l
Sticky Gel	Mixture	Atlantic Salmon	Experimental	96 hours	LC50	>1,000 mg/l
Acrylate Adhesive	Trade Secret		Data not available or insufficient for classification			N/A
Polyethylene Film	None		Data not available or insufficient for classification			N/A
Polyethylene glycol dimethacrylate	None		Data not available or insufficient for classification			N/A

### 12.2. Persistence and degradability

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Sticky Gel	Mixture	Experimental Biodegradation	28 days	BOD	53 % BOD/ThBOD	OECD 301C - MITI test (I)
Acrylate Adhesive	Trade Secret	Data not available-insufficient			N/A	
Polyethylene Film	None	Data not available-insufficient			N/A	
Polyethylene glycol dimethacrylate	None	Data not available-insufficient			N/A	

### 12.3 : Bioaccumulative potential

Material	CAS Number	Test type	Duration	Study Type	Test result	Protocol
Sticky Gel	Mixture	Estimated Bioconcentration		Bioaccumulation factor	2.3	Estimated: Bioconcentration factor
Acrylate Adhesive	Trade Secret	Data not available or insufficient for classification	N/A	N/A	N/A	N/A



Polyethylene Film	None	Data not available or insufficient for classification	N/A	N/A	N/A	N/A
Polyethylene glycol dimethacrylate	None	Data not available or insufficient for classification	N/A	N/A	N/A	N/A

**12.4. Mobility in soil**

Please contact manufacturer for more details

**12.5 Other adverse effects**

No information available.

## SECTION 13: Disposal considerations

**13.1. Disposal methods**

Dispose of contents/ container in accordance with the local/regional/national/international regulations.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. If no other disposal options are available, waste product may be placed in a landfill properly designed for industrial waste.

## SECTION 14: Transport Information

**Australian Dangerous Goods Code (ADG) - Road/Rail Transport**

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Hazchem Code:** Not applicable

**IERG:** Not applicable.

**International Air Transport Association (IATA) - Air Transport**

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**International Maritime Dangerous Goods Code (IMDG)- Marine Transport**

**UN No.:** Not applicable.

**Proper shipping name:** Not applicable.

**Class/Division:** Not applicable.

**Sub Risk:** Not applicable.

**Packing Group:** Not applicable.

**Marine Pollutant:** Not applicable.

## SECTION 15: Regulatory information

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

**Australian Inventory Status:**

This product is regulated by the Therapeutics Goods Administration and is exempt from compliance with the Industrial Chemicals (Notification and Assessment) Act 1989 as amended.

## SECTION 16: Other information

**Revision information:**

Complete document review.

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**3M Australia SDSs are available at [www.3m.com.au](http://www.3m.com.au)**