



## Safety Data Sheet

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|                        |            |                         |            |
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This Safety Data Sheet has been prepared in accordance with the New Zealand, Hazardous Substances (Safety Data Sheets) Notice 2017.

### SECTION 1: Identification

#### 1.1. Product identifier

3M™ Red Dot™ ECG Monitoring Electrodes- Models 2237 and 2259

#### Product Identification Numbers

70-2005-9584-4 70-2007-4987-0

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

##### Recommended use

Electrocardio monitoring electrodes

For Professional use only

#### 1.3. Supplier's details

**Address:** 3M New Zealand Ltd, 94 Apollo Drive, Rosedale 0632, Auckland  
**Telephone:** (09) 477 4040  
**E Mail:** innovation@nz.mmm.com  
**Website:** 3m.co.nz

#### 1.4. Emergency telephone number

24 hr Medical Emergency, National Poisons Centre, 0800 764 766 (0800 POISON)

### SECTION 2: Hazard identification

Not classified as hazardous in accordance with the relevant criteria of the HSNO Act 1996, the Hazardous Substances (Classification) Notice 2017 and Hazardous Substances (Minimum Degrees of Hazard) Notice 2017. 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.

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

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

| GHS                         | HSNO                        |
|-----------------------------|-----------------------------|
| Not classified as hazardous | Not classified as hazardous |

**2.2. Label elements****SIGNAL WORD**

Not applicable.

**Symbols:**

Not applicable.

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

| <b>Ingredient</b> | <b>CAS Nbr</b> | <b>% by Weight</b> |
|-------------------|----------------|--------------------|
| Propane-1,2-diol  | 57-55-6        | 25 - 30            |

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

No need for first aid is anticipated.

**Skin contact**

No need for first aid is anticipated.

**Eye contact**

No need for first aid is anticipated.

**If swallowed**

No need for first aid is anticipated.

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

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.

**5.4. Hazchem code:** Not applicable.**SECTION 6: Accidental release measures**

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

Not applicable.

**6.2. Environmental precautions**

Not applicable.

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

Not applicable.

**SECTION 7: Handling and storage**

Refer to Section 15 - Controls for more information

**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.

**7.3. Certified handler**

Not required

**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.

| <b>Ingredient</b> | <b>CAS Nbr</b> | <b>Agency</b>      | <b>Limit type</b>   | <b>Additional comments</b> |
|-------------------|----------------|--------------------|---|----------------------------|
| Propane-1,2-diol  | 57-55-6        | AIHA               | TWA(as aerosol):10 mg/m <sup>3</sup>  |                            |
| Propane-1,2-diol  | 57-55-6        | New Zealand<br>WES | TWA(as particulate)(8 hours):<br>10 mg/m <sup>3</sup> ; TWA(Vapor and<br>particulates)(8 hours): 474<br>mg/m <sup>3</sup> (150 ppm) |                            |

ACGIH : American Conference of Governmental Industrial Hygienists

AIHA : American Industrial Hygiene Association

CMRG : Chemical Manufacturer's Recommended Guidelines

New Zealand WES : New Zealand Workplace Exposure Standards.

TWA: Time-Weighted-Average

STEL: Short Term Exposure Limit

ppm: parts per million

mg/m<sup>3</sup>: milligrams per cubic metre

CEIL: Ceiling

**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 protective gloves 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.                    |
| Specific Physical Form:                           | Film                      |
| Colour  | Red, 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>    |
| Vapour density                                    | <i>Not applicable.</i>    |
| Relative density                                  | <i>Not applicable.</i>    |
| Water solubility                                  | Nil                       |
| 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   | <i>Not applicable.</i>    |
| Volatile organic compounds (VOC)                  | <i>Not applicable.</i>    |
| Percent volatile                                  | <i>Not applicable.</i>    |
| VOC less H <sub>2</sub> O & exempt solvents       | <i>Not applicable.</i>    |

**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 Possibility of hazardous reactions**

Hazardous polymerisation will not occur.

**10.4 Conditions to avoid**

None known.

**10.5 Incompatible materials**

None known.

**10.6 Hazardous decomposition products****Substance****Condition**

None known.

Refer to Section 5.2 for hazardous decomposition products during combustion.

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.

**Skin contact**

No health effects are expected.

**Eye contact**

No health effects are expected.

**Ingestion**

No health effects are expected.

**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 |
| Propane-1,2-diol | Dermal    | Rabbit  | LD50 20,800 mg/kg                              |
| Propane-1,2-diol | Ingestion | Rat     | LD50 22,000 mg/kg                              |

ATE = acute toxicity estimate

**Skin Corrosion/Irritation**

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| Name             | Species | Value                     |
|------------------|---------|---------------------------|
| Overall product  | Rabbit  | No significant irritation |
| Propane-1,2-diol | Rabbit  | No significant irritation |

**Serious Eye Damage/Irritation**

| Name             | Species | Value                     |
|------------------|---------|---------------------------|
| Propane-1,2-diol | Rabbit  | No significant irritation |

**Skin Sensitisation**

| Name             | Species    | Value          |
|------------------|------------|----------------|
| Overall product  | Guinea pig | Not classified |
| Propane-1,2-diol | Human      | 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         |
|------------------|----------|---------------|
| Propane-1,2-diol | In Vitro | Not mutagenic |
| Propane-1,2-diol | In vivo  | Not mutagenic |

**Carcinogenicity**

| Name             | Route     | Species                 | Value            |
|------------------|-----------|-------------------------|------------------|
| Propane-1,2-diol | Dermal    | Mouse                   | Not carcinogenic |
| Propane-1,2-diol | Ingestion | Multiple animal species | Not carcinogenic |

**Reproductive Toxicity****Reproductive and/or Developmental Effects**

| Name             | Route     | Value                                  | Species                 | Test result            | Exposure Duration    |
|------------------|-----------|--|-------------------------|------------------------|----------------------|
| Propane-1,2-diol | Ingestion | Not classified for female reproduction | Mouse                   | NOAEL 10,100 mg/kg/day | 2 generation         |
| Propane-1,2-diol | Ingestion | Not classified for male reproduction   | Mouse                   | NOAEL 10,100 mg/kg/day | 2 generation         |
| Propane-1,2-diol | Ingestion | Not classified for development         | Multiple animal species | NOAEL 1,230 mg/kg/day  | during organogenesis |

**Target Organ(s)****Specific Target Organ Toxicity - single exposure**

| Name             | Route     | Target Organ(s)                   | Value          | Species          | Test result         | Exposure Duration |
|------------------|-----------|-----------------------------------|----------------|------------------|---------------------|-------------------|
| Propane-1,2-diol | Ingestion | central nervous system depression | Not classified | Human and animal | NOAEL Not available |                   |

**Specific Target Organ Toxicity - repeated exposure**

| Name | Route | Target Organ(s) | Value | Species | Test result | Exposure Duration |
|------|-------|-----------------|-------|---------|-------------|-------------------|
|------|-------|-----------------|-------|---------|-------------|-------------------|

**3M™ Red Dot™ ECG Monitoring Electrodes- Models 2237 and 2259**

|                  |           |                       |                |                         |                       |           |
|------------------|-----------|-----------------------|----------------|-------------------------|-----------------------|-----------|
| Propane-1,2-diol | Ingestion | hematopoietic system  | Not classified | Multiple animal species | NOAEL 1,370 mg/kg/day | 117 days  |
| Propane-1,2-diol | Ingestion | kidney and/or bladder | Not classified | Dog                     | NOAEL 5,000 mg/kg/day | 104 weeks |

**Aspiration Hazard**

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

Please contact the address or phone number listed on the first page of the SDS for additional toxicological information on this material and/or its components.

**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**

No product test data available.

| Material         | CAS Number | Organism        | Type         | Exposure | Test endpoint | Test result |
|------------------|------------|-----------------|--------------|----------|---------------|-------------|
| Propane-1,2-diol | 57-55-6    | Crustacea other | Experimental | 96 hours | LC50          | 18,800 mg/l |
| Propane-1,2-diol | 57-55-6    | Green Algae     | Experimental | 96 hours | EC50          | 19,000 mg/l |
| Propane-1,2-diol | 57-55-6    | Rainbow trout   | Experimental | 96 hours | LC50          | 40,613 mg/l |
| Propane-1,2-diol | 57-55-6    | Water flea      | Experimental | 48 hours | EC50          | 18,340 mg/l |
| Propane-1,2-diol | 57-55-6    | Green algae     | Experimental | 96 hours | NOEC          | 15,000 mg/l |
| Propane-1,2-diol | 57-55-6    | Water flea      | Experimental | 7 days   | NOEC          | 13,020 mg/l |

**12.2. Persistence and degradability**

| Material         | CAS Number | Test type                   | Duration | Study Type | Test result    | Protocol                  |
|------------------|------------|-----------------------------|----------|------------|----------------|---------------------------|
| Propane-1,2-diol | 57-55-6    | Experimental Biodegradation | 28 days  | BOD        | 90 % BOD/ThBOD | OECD 301C - MITI test (I) |

**12.3 : Bioaccumulative potential**

| Material         | CAS Number | Test type                     | Duration | Study Type | Test result | Protocol      |
|------------------|------------|-------------------------------|----------|------------|-------------|---------------|
| Propane-1,2-diol | 57-55-6    | Experimental Bioconcentration |          | Log Kow    | -0.92       | Other methods |

**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**

In accordance with the Hazardous Substances (Disposal) Notice 2017 and the relevant criteria of the HSNO Act 1996.

Dispose of waste product in a permitted industrial waste facility. As a disposal alternative, incinerate in a permitted waste incineration facility. Proper destruction may require the use of additional fuel during incineration processes. Empty and clean product containers may be disposed as non-hazardous waste. Consult your specific regulations and service providers to determine available options and requirements. 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.

Packaging (that may or may not contain any residual substance) may be lawfully disposed of by householders or other consumers through public or commercial waste collection services.

## **SECTION 14: Transport Information**

### **New Zealand Land Transport Rule: Dangerous Goods - 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**

HSNO Approval number Not applicable

Group standard name Not applicable

HSNO Hazard classification Refer to Section 2: Hazard identification

### **NZ Inventory of Chemicals (NZIoC) Status**

This product is an article as defined by HSNO regulations, and is exempt from NZIoC listing requirements.



**Controls in accordance with the Health and Safety at Work (Hazardous Substances) Regulations 2017**

|                                 |              |
|---------------------------------|--------------|
| Certified handler               | Not required |
| Location Compliance Certificate | Not required |
| Hazardous atmosphere zone       | Not required |
| Fire extinguishers              | Not required |
| Emergency response plan         | Not required |
| Secondary containment           | Not required |
| Tracking                        | Not required |
| Warning signage                 | Not required |

**SECTION 16: Other information****Revision information:**

Complete document review.

|                        |            |                         |            |
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**Key to abbreviations and acronyms**

**GHS** means the Globally Harmonised System of Classification and Labelling of Chemicals, 5th revised edition 2013

**HSNO** means Hazardous Substances and New Organisms Act 1996

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