

# **Material Safety Data Sheet**

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This material safety data sheet (MSDS) is provided as a courtesy in response to a customer request. This product is not regulated under, and a MSDS is not required for this product by the OSHA Hazard Communication Standard (29 CFR 1910.1200) because, 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.

## **SECTION 1: PRODUCT AND COMPANY IDENTIFICATION**

**PRODUCT NAME:** 3M(TM) Red Dot(TM) ECG Monitoring Electrodes - Models 2238, 2239, 2245, 2248, 2249, 2255, and 9641

MANUFACTURER: 3M DIVISION: Medical-Surgical Division

ADDRESS: 3M Center

St. Paul, MN 55144-1000

EMERGENCY PHONE: 1-800-364-3577 or (651) 737-6501 (24 hours)

**Issue Date:** 09/29/2003 **Supercedes Date:** 02/10/2003

Document Group: 18-4066-9

#### Product Use:

Specific Use:

Electrocardio monitoring electrodes.

# **SECTION 2: INGREDIENTS**

Ingredient	<u>C.A.S. No.</u>	<u>% by Wt</u>
Adhesive Contains:	None	0
ACRYLATE POLYMER	Trade Secret	100
***********	*********	0
2-3% Conductive Gel Contains:	None	0
WATER	7732-18-5	80 - 90
PROPYLENE GLYCOL	57-55-6	10 - 20
POTASSIUM CHLORIDE	7447-40-7	2 - 5
HYDROXYPROPYL GUAR GUM	39421-75-5	1 - 3

Polymer backing, paper liners, Ag/AgCl eyelet, stainless steel/conductive plastic stud, synthetic rubber based adhesive, and abrader pad\*.

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\*Abrader pads are on only 2249 and 2255.

## **SECTION 3: HAZARDS IDENTIFICATION**

### 3.1 EMERGENCY OVERVIEW

Odor, Color, Grade: Circular red and white front label, slight odor General Physical Form: Solid

**Immediate health, physical, and environmental hazards:** The environmental properties of this product present a low environmental hazard. This product, when used under reasonable conditions and in accordance with the 3M 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.

#### **3.2 POTENTIAL HEALTH EFFECTS**

**Eye Contact:** No health effects are expected.

**Skin Contact:** No health effects are expected.

**Inhalation:** No health effects are expected.

**Ingestion:** No health effects are expected.

## **SECTION 4: FIRST AID MEASURES**

#### 4.1 FIRST AID PROCEDURES

The following first aid recommendations are based on an assumption that appropriate personal and industrial hygiene practices are followed.

**Eye Contact:** No need for first aid is anticipated.

Skin Contact: No need for first aid is anticipated.

Inhalation: No need for first aid is anticipated.

If Swallowed: No need for first aid is anticipated.

# **SECTION 5: FIRE FIGHTING MEASURES**

#### 5.1 FLAMMABLE PROPERTIES

Autoignition temperature Flash Point Flammable Limits - LEL Flammable Limits - UEL No Data Available Not Applicable Not Applicable Not Applicable

#### 5.2 EXTINGUISHING MEDIA

Use fire extinguishers with class B extinguishing agents (e.g., dry chemical, carbon dioxide).

#### 5.3 PROTECTION OF FIRE FIGHTERS

**Special Fire Fighting Procedures:** Wear full protective clothing, including helmet, self-contained, positive pressure or pressure demand breathing apparatus, bunker coat and pants, bands around arms, waist and legs, face mask, and protective covering for exposed areas of the head.

Unusual Fire and Explosion Hazards: No unusual fire or explosion hazards are anticipated.

Note: See STABILITY AND REACTIVITY (SECTION 10) for hazardous combustion and thermal decomposition information.

# **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Accidental Release Measures: Not applicable.

# **SECTION 7: HANDLING AND STORAGE**

#### 7.1 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. Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

#### 7.2 STORAGE

Not applicable.

# SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

#### 8.1 ENGINEERING CONTROLS

Not applicable.

#### 8.2 PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### 8.2.1 Eye/Face Protection

Avoid eye contact.

#### 8.2.2 Skin Protection

Not applicable.

#### 8.2.3 Respiratory Protection

Under normal use conditions, airborne exposures are not expected to be significant enough to require respiratory protection.

#### 8.2.4 Prevention of Swallowing

Do not eat, drink or smoke when using this product. Wash exposed areas thoroughly with soap and water.

#### **8.3 EXPOSURE GUIDELINES**

Ingredient	<u>Authority</u>	<b>Type</b>	<u>Limit</u>	Additional Information
PROPYLENE GLYCOL	AIHA	TWA -	10 mg/m3	as aerosol
PROPYLENE GLYCOL	AIHA	specific form TWA	50 ppm	total

SOURCE OF EXPOSURE LIMIT DATA: ACGIH: American Conference of Governmental Industrial Hygienists CMRG: Chemical Manufacturer Recommended Guideline OSHA: Occupational Safety and Health Administration AIHA: American Industrial Hygiene Association Workplace Environmental Exposure Level (WEEL)

# **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

Odor, Color, Grade: General Physical Form: Autoignition temperature Flash Point Flammable Limits - LEL Flammable Limits - UEL Boiling point Density Vapor Density Vapor Density	Circular red and white front label, slight odor Solid No Data Available Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable Not Applicable
Vapor Pressure	Not Applicable
Specific Gravity	Not Applicable
pH	Not Applicable
Melting point	No Data Available
Solubility in Water	Nil

# **SECTION 10: STABILITY AND REACTIVITY**

Stability: Stable.

Materials and Conditions to Avoid: None known

Hazardous Polymerization: Hazardous polymerization will not occur.

#### Hazardous Decomposition or By-Products

**Substance** 

Condition

Carbon monoxide Carbon dioxide Oxides of Nitrogen During Combustion During Combustion Oxidation, heat or reaction

# SECTION 11: TOXICOLOGICAL INFORMATION

Please contact the address listed on the first page of the MSDS for Toxicological Information on this material and/or its components.

# **SECTION 12: ECOLOGICAL INFORMATION**

# ECOTOXICOLOGICAL INFORMATION

Not applicable.

## CHEMICAL FATE INFORMATION

Not applicable.

# **SECTION 13: DISPOSAL CONSIDERATIONS**

Waste Disposal Method: Dispose of waste product in a sanitary landfill. Incinerate in an industrial or commercial facility in the presence of a combustible material.

#### EPA Hazardous Waste Number (RCRA): Not regulated

Since regulations vary, consult applicable regulations or authorities before disposal.

# **SECTION 14:TRANSPORT INFORMATION**

# 3M MATERIAL SAFETY DATA SHEET 3M(TM) Red Dot(TM) ECG Monitoring Electrodes - Models 2238, 2239, 2245, 2248, 2249, 2255, and 9641 09/29/2003

#### **ID** Number(s):

70-2004-7653-2, 70-2004-7938-7, 70-2004-7942-9, 70-2005-9585-1, 70-2006-0092-5, 70-2006-0161-8, 70-2006-1667-3, 70-2006-1669-9, 70-2006-1709-3, 70-2006-1711-9, 70-2006-3014-6

Please contact the emergency numbers listed on the first page of the MSDS for Transportation Information for this material.

# **SECTION 15: REGULATORY INFORMATION**

#### **US FEDERAL REGULATIONS**

Contact 3M for more information.

#### 311/312 Hazard Categories:

Fire Hazard - No Pressure Hazard - No Reactivity Hazard - No Immediate Hazard - No Delayed Hazard - No

### STATE REGULATIONS

Contact 3M for more information.

### **CHEMICAL INVENTORIES**

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

This material contains one or more substances not listed on the TSCA Inventory. Commercial use of this material is regulated by the FDA.

Contact 3M for more information.

## INTERNATIONAL REGULATIONS

Contact 3M for more information.

This MSDS has been prepared to meet the U.S. OSHA Hazard Communication Standard, 29 CFR 1910.1200.

# **SECTION 16: OTHER INFORMATION**

#### **NFPA Hazard Classification**

Health: 0 Flammability: 1 Reactivity: 0 Special Hazards: None

National Fire Protection Association (NFPA) hazard ratings are designed for use by emergency response personnel to address the hazards that are presented by short-term, acute exposure to a material under conditions of fire, spill, or similar emergencies. Hazard ratings are primarily based on the inherent physical and toxic properties of the material but also include the toxic properties of combustion or decomposition products that are known to be generated in significant quantities.

Revision Changes:

Section 8: Exposure guidelines ingredient information was modified. Section 1: Initial issue message was modified.

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