

MATERIAL SAFETY DATA SHEET
Solid Gel EKG Snap Electrodes

1. PRODUCT AND COMPANY IDENTIFICATION

Product Name Solid Gel EKG Snap Electrodes
Use/Size Electrode Article used in Medical Application
Product Numbers 22450, 22453, 22455, 22850, 22853, 22855, 31013926, 31050522, 31078135, 31112496, 31115788, 31115796, 31118733, 31181129, 31194621U, 31371308, 31439725, 31439766, 31452389, 31452405, 31478368, 31478376, 31479457, 31488177, 31499224, 31530846, 40000003, 40000004, 40000005, 40000013, 40000020, 50000037, ES20250, ES20329, ES40025, ES40250, ES40325, ES60250, ES60300, ES60301
Manufacturer/Supplier Tyco Healthcare/Kendall
Address 15 Hampshire Street
Mansfield, MA 02048
Phone Number (508) 261-8000 (Monday – Friday 8:00 am to 5:00 pm)
Chemtrec Number (800) 424-9300
Revision Date: February 1, 2005
MSDS Date: February 1, 2005

This MSDS has been compiled in accordance with - EC Directive 91/155/EC - OSHA's Hazcom Standard (29 CFR 1910.1200)

2. COMPOSITION/INFORMATION ON THE COMPONENTS

Component Name	CAS#/Codes	Concentration	R Phrases	Classification
Electrode	Proprietary	100.0%	R-None	None

3. HAZARD IDENTIFICATION

EU Main Hazards
Not classified as hazardous.

Routes of Entry

- Eye contact - Skin contact

Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

- Eye - Skin

Health Effects - Eyes

Contact with electrode may cause slight transient irritation.

Health Effects - Skin

Electrode is non-irritating to skin.

Health Effects - Ingestion

No adverse effects are expected during normal conditions of use.

Health Effects - Inhalation

No adverse effects are expected during normal conditions of use.

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4. FIRST AID MEASURES

Eyes

Immediately flood the eye with plenty of water for at least 15 minutes, holding the eye open. Obtain medical attention if soreness or redness persists.

Skin

Wash skin thoroughly with soap and water. Continue washing for at least 15 minutes. Remove contaminated clothing as washing proceeds. Obtain medical attention if blistering occurs or redness persists.

Ingestion

If article is accidentally swallowed, seek medical attention immediately.

Inhalation

Inhalation hazard is not possible with this article.

Advice to Physicians

Treat symptomatically.

5. FIRE FIGHTING MEASURES

Extinguishing Media

Not Flammable. Select extinguishing agent appropriate to other materials involved.

Unusual Fire and Explosion Hazards

This product may give rise to hazardous fumes in a fire.

Protective Equipment for Fire-Fighting

Wear full protective clothing and self-contained breathing apparatus.

6. ACCIDENTAL RELEASE MEASURES

This article should be picked up or sweep up and disposed of as solid waste.

7. HANDLING AND STORAGE

Wear appropriate personal protective equipment when handling. Storage area should be: - cool - dry

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Electrode

None assigned.

Engineering Control Measures

No specific controls are necessary.

Respiratory Protection

Respiratory protection is not required.

Hand Protection

Protective gloves.

Eye Protection

Chemical goggles or safety glasses with side shields may be worn.

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Normal work wear.

9. PHYSICAL AND CHEMICAL PROPERTIES

Physical State	Solid article
Color	Multi-colored
Odor	Odorless
pH	Approximately 3 - 5 (based on conductive salt contained within)
Specific Gravity	Not applicable
Boiling Range/Point (°C/F)	Not applicable
Melting Point (°C/F)	Not applicable
Flash Point (PMCC) (°C)	Not applicable
Vapor Pressure	Negligible
Solubility in Water	Completely insoluble
Vapor Density (Air = 1)	Not applicable
Evaporation Rate	Not applicable
VOC (g/l)	0.0

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

- Contact with incompatible materials

Materials to Avoid

- Strong oxidizing agents - Strong Bases

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

- oxides of carbon – oxides of iron – oxides of nickel – oxides of tin – hydrogen chloride

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

(Electrode) Primary skin irritation (modified Draize testing) was non-irritating.

(Electrode) This article has tested negative for skin sensitization by Buehler Patch testing.

(Electrode) USP Agar Diffusion testing has shown this article to be non-cytotoxic.

Chronic Toxicity/Carcinogenicity

This product is not expected to cause long term adverse health effects.

Genotoxicity

This product is not expected to cause any mutagenic effects.

Reproductive/Developmental Toxicity

This product is not expected to cause reproductive or developmental health effects.

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12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

Bio-accumulation

No relevant studies identified.

Ecotoxicity

No relevant studies identified

13. DISPOSAL

Dispose of in accordance with all applicable local and national regulations.

14. TRANSPORT INFORMATION

DOT CFR 172.101 Data	Not Regulated
UN Proper Shipping Name	Not Regulated
UN Class	None.
UN Number	None.
UN Packaging Group	None.
Classification for AIR Transportation (IATA)	Consult current IATA Regulations prior to shipping by air.

15. REGULATORY INFORMATION

EU Label Information

Classification and labelling have been performed according to EU directives 67/548/EEC and 99/45/EC including amendments.

EU Hazard Symbol and Indication of Danger

According to EC Commission Directive 67/548/EEC this product is not classified.

R phrases

None.

S phrases

None.

US REGULATIONS (Federal, State) and INTERNATIONAL CHEMICAL REGISTRATION LAWS**TSCA Listing**

This product contains ingredients that are listed on or exempt from listing on the EPA Toxic Substance Control Act Chemical Inventory.

EINECS Listing

All ingredients in this product are listed on the European Inventory of Existing Commercial Chemical Substances (EINECS) or are exempt from listing.

DSL (Canadian) Listing

All ingredients in this product are listed on or exempted from listing on the Domestic Substance List (DSL).

WHMIS Classification

This article is exempt under WHMIS.

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This product was classified in accordance with the hazard criteria of the Canadian Controlled Products Regulations and the MSDS contains all the information required by these regulations.

MA Right To Know Law

This product and its components are exempt from the requirements of the Massachusetts Right To Know Substance List.

PA Right To Know Law

This product and its components are exempt from the requirements of the Pennsylvania Hazardous Substance List.

NJ Right To Know Law

This product and its components are exempt from the requirements of the New Jersey Workplace Hazardous Substance List.

California Proposition 65

This product contains no chemicals that have been found by the State of California to cause cancer, birth defects or other reproductive harm.

SARA Title III Sect. 302 (EHS)

This product does not contain any chemicals subject to SARA Title III Section 302.

SARA Title III Sect. 304

This product does not contain any chemicals subject to SARA Title III Section 304.

SARA Title III Sect. 311/312 Categorization

Immediate (Acute) Health Hazard

SARA Title III Sect. 313

This product and its components are exempt from the requirements of Section 313.

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 0

NFPA Code for Health - 0

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - 0

HMIS Ratings

HMIS Code for Flammability - 0

HMIS Code for Health - 0

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

16. OTHER INFORMATION

Abbreviations

N/A: Denotes no applicable information found or available

CAS#: Chemical Abstracts Service Number

ACGIH: American Conference of Governmental Industrial Hygienists

OSHA: Occupational Safety and Health Administration

TLV: Threshold Limit Value

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

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R: Risk
S: Safety
LC50: Lethal Concentration 50%
LD50: Lethal Dose 50%
BOD: Biological Oxygen Demand
KoC: Soil Organic Carbon Partition Coefficient

Prepared By: EnviroNet LLC.

The information and recommendations presented in this MSDS are based on sources believed to be accurate; therefore, Tyco Healthcare/Kendall Company assumes no liability for the accuracy or completeness of this information. It is the user's responsibility to determine the suitability of the information for their particular purposes.
