

**MATERIAL SAFETY DATA SHEET**  
**Tab Diagnostic EKG Electrodes –**  
**Conductive Silver**

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** Tab Diagnostic EKG Electrodes – Conductive Silver  
**Use/Size** Electrode Article used in Medical Application  
**Product Numbers** 30788452, 30807732, 31433538, 31447793, 50000036, 50000044, 50000141, 50000145, 50097385, EB10001, EB10002, EF00041, EF00042, EF00046, EF00051, EF00052, EF00053, EF00054, EF00066, EF00071, EF00074, EF00075, EF00076, EF00078, EF00081, EF00082, EF00083, EF00091, EF00093, EF00094, EF00145, EF00149, EF00160, ER01000, ER01000A, ER01001, ER01002, ER01005, ER01033, ER88006, ER88007, ET88010  
**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**

<p><b>EU Main Hazards</b> Not classified as hazardous.</p>
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**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**

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**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.

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**5. FIRE FIGHTING MEASURES**

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**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.

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**6. ACCIDENTAL RELEASE MEASURES**

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

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**7. HANDLING AND STORAGE**

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

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**8. EXPOSURE CONTROLS/PERSONAL PROTECTION**

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**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.

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**9. PHYSICAL AND CHEMICAL PROPERTIES**

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

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**10. STABILITY AND REACTIVITY**

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**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 silver – oxides of tin - hydrogen chloride

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**11. TOXICOLOGICAL INFORMATION**

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**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**

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**Mobility**

No relevant studies identified.

**Persistence/Degradability**

No relevant studies identified.

**Bio-accumulation**

No relevant studies identified.

**Ecotoxicity**

No relevant studies identified

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**13. DISPOSAL**

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

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**14. TRANSPORT INFORMATION**

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

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**15. REGULATORY INFORMATION**

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**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).

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**WHMIS Classification**

This article is exempt under WHMIS.

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.

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**16. OTHER INFORMATION**

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**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

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**16. OTHER INFORMATION**

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**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

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PEL: Permissible Exposure Limit  
STEL: Short Term Exposure Limit  
NTP: National Toxicology Program  
IARC: International Agency for Research on Cancer  
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.

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