

# MATERIAL SAFETY DATA SHEET

## SECTION 1 - PRODUCT AND COMPANY IDENTIFICATION

**PRODUCT NAME: ELECTRODE GEL**

PART NUMBER:

GENERAL USE: Electrode Conductive Gel for Monitoring

PRODUCT DESCRIPTION: Opaque gel, characteristic odor



MANUFACTURER'S NAME

**Mavidon Medical Products**

DATE PREPARED: April 9, 2009

SUPERSEDES: March 12, 2006

EMAIL ADDRESS: info@mavidon.com

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ADDRESS (NUMBER, STREET, P.O. BOX)

1820 2nd Avenue North

(CITY, STATE AND ZIP CODE)

Lake Worth, FL 33461

COUNTRY

USA

TELEPHONE NUMBER FOR INFORMATION

(561) 585-2227

EMERGENCY TELEPHONE NUMBER

Infotrac (800) 535-5053 Outside USA (352) 323-3500

## SECTION 2 - HAZARDS IDENTIFICATION

### EMERGENCY OVERVIEW

Mild liquid, ingestion may cause gastric distress. Hazard Symbols - not classified. Risk phrases - none.

### POTENTIAL HEALTH EFFECTS

INHALATION: None expected, however, certain individuals may experience minor nausea or headaches.

SKIN: None expected, however, prolonged contact may cause irritation. This product has passed the "acute Dermal Toxicity in the Rabbit (Limit Test), In vitro Cytotoxicity Test, Primary Skin Irritation Test, and Repeated Patch Dermal Sensitization Test.

EYES: Contact with eyes may cause irritation.

INGESTION: May cause gastric distress, vomiting and diarrhea.

CARCINOGENICITY

NTP? No

IARC MONOGRAPHS? No

OSHA REGULATED? No

## SECTION 3 - HAZARDOUS INGREDIENTS

HAZARDOUS COMPONENTS	% (by weight)	CAS #	EINECS #	Hazard Symbol	RISK PHRASES Full Text Section 16
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No hazardous materials present as defined by OSHA - 29 CFR 1910.1000; EPA - 40 CFR 260 - 281, 302, 355, 370, 372; DOT - 49 CFR 172; WHMIS or EC Directive 91 / 155 / EEC.

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**SECTION 4 - FIRST AID MEASURES**

**INHALATION:** Remove affected person to fresh air; if symptoms persist seek medical attention.

**SKIN:** Remove contaminated clothing; wash affected area with soap and water; launder contaminated clothing before reuse; if irritation persists, seek medical attention.

**EYES:** Check for and remove contact lenses. Flush eyes with water for 15 minutes; if irritation persists, seek medical attention.

**INGESTION:** Give two glasses of water for dilution; DO NOT induce vomiting; never give anything by mouth to an unconscious person; seek medical attention.

**SECTION 5 - FIRE FIGHTING MEASURES**

**GENERAL HAZARDS:** Product is not considered flammable or combustible. Products of combustion include compounds of carbon, hydrogen and oxygen, including carbon monoxide.

**EXTINGUISHING MEDIA**

Carbon dioxide, water, water fog, dry chemical, chemical foam.

**FIRE FIGHTING PROCEDURES**

Keep containers cool with water spray to prevent container rupture due to steam buildup.

**UNUSUAL FIRE AND EXPLOSION HAZARDS**

None

**HAZARDOUS COMBUSTION PRODUCTS**

Smoke, fumes or vapors, oxides of carbon.

**SECTION 6 - ACCIDENTAL RELEASE MEASURES**

**STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED:** Small spills - wash to sanitary sewer with plenty of water. Large spills - soak up with approved absorbent, shovel product into approved container for disposal. Wash area with plenty of water.

**SECTION 7 - HANDLING AND STORAGE**

**PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE:** Keep container closed when not in use; protect containers from abuse; protect from extreme temperatures.

**SECTION 8 - EXPOSURE CONTROLS / PERSONAL PROTECTION**

**HAZARDOUS COMPONENTS**

**NIOSH**

**ACGIH**

TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3	TWA ppm	TWA mg/m3	STEL ppm	STEL mg/m3

No hazardous materials present as defined by OSHA - 29 CFR 1910.1000; EPA - 40 CFR 260 - 281, 302, 355, 370, 372; DOT - 49 CFR 172; WHMIS or EC Directive 91 / 155 / EEC.

**PERSONAL PROTECTION:**

**RESPIRATORY PROTECTION:** None required

**PROTECTIVE GLOVES:** None required

**EYE PROTECTION:** Safety glasses recommended for general protection Refer to 29 CFR 1910.133, ANSI Z87.1, or European Standard EN166.

**OTHER PROTECTIVE CLOTHING OR EQUIPMENT:** Safety eyewash station nearby.

**WORK / HYGIENIC PRACTICES:** Practice safe workplace habits.

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**SECTION 9 - PHYSICAL AND CHEMICAL PROPERTIES**

APPEARANCE AND ODOR Opaque gel, characteristic odor	VAPOR PRESSURE 17 mm Hg @ 20° C
pH 7.5 - 7.8	SPECIFIC GRAVITY (WATER = 1) 1.001
BOILING POINT / BOILING RANGE 212° F ( 100° C )	SOLUBILITY IN WATER Complete
FLASH POINT Non-flammable	VISCOSITY Gel
FLAMMABLE LIMITS LEL: Not applicable UEL: Not applicable	VAPOR DENSITY (AIR = 1) > 1
AUTOIGNITION TEMPERATURE Not determined	EVAPORATION RATE (WATER = 1) < 1

**SECTION 10 - STABILITY AND REACTIVITY**

STABILITY UNSTABLE: STABLE: X	CONDITIONS TO AVOID: Extreme temperatures, keep from freezing.
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INCOMPATIBILITY (MATERIALS TO AVOID): Strong oxidizers, strong acids.

HAZARDOUS DECOMPOSITION OR BYPRODUCTS: Decomposition will not occur if handled and stored properly. In case of a fire, oxides of carbon, hydrocarbons, fumes or vapors, and smoke may be produced.

HAZARDOUS POLYMERIZATION MAY OCCUR: WILL NOT OCCUR: X	CONDITIONS TO AVOID: None
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**SECTION 11 - TOXICOLOGICAL INFORMATION**

Hazardous Components	CAS # EINECS #	LD50 of Ingredient (Specify Species and Route)	LC50 of Ingredient (Specify Species)
No hazardous materials present as defined by OSHA - 29 CFR 1910.1000; EPA - 40 CFR 260 - 281, 302, 355, 370, 372; DOT - 49 CFR 172; WHMIS or EC Directive 91 / 155 / EEC.			

**SECTION 12 - ECOLOGICAL INFORMATION**

No data are available on the adverse effects of this material on the environment. Neither COD nor BOD data are available. Based on the chemical composition of this product it is assumed that the mixture can be treated in an acclimatized biological waste treatment plant system in limited quantities. However, such treatment should be evaluated and approved for each specific biological system. None of the ingredients in this mixture are classified as a Marine Pollutant.

**SECTION 13 - DISPOSAL CONSIDERATIONS**

WASTE DISPOSAL METHOD: Dispose of in accordance with Local, State, and Federal Regulations. Product is classified as non - hazardous, however, non-hazardous materials may become hazardous waste upon contact with other products. Refer to "40 CFR Protection of Environment Parts 260 - 299" for complete waste disposal regulations. Consult your local, state, or Federal Environmental Protection Agency before disposing of any chemicals. According to the European Waste Catalogue, waste codes are application specific and should be assigned by the user based on the application for which the product is used.

**SECTION 14 - TRANSPORT INFORMATION**

PROPER SHIPPING NAME: Non - Hazardous for Transport	IATA HAZARD CLASS / Packaging Group: Not regulated
DOT HAZARD CLASS / Packaging Group: Not regulated	IMDG HAZARD CLASS: Not regulated
REFERENCE: Not Applicable	RID / ADR Dangerous Goods Code: Not regulated
UN / NA IDENTIFICATION NUMBER: None	UN TDG Class / Packaging Group: Not regulated
LABEL: None Required	Hazard Identification Number (HIN): None
HAZARD SYMBOLS: None	

Note: Transportation information provided is for reference only. Client is urged to consult 49 CFR 100 - 177, IMDG, IATA, EU, United Nations TDG, and WHMIS (Canada) TDG information manuals for detailed regulations and exceptions covering specific container sizes, packaging materials and methods of shipping.

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**SECTION 15 - REGULATORY INFORMATION**

**TSCA (USA - Toxic Substance Control Act)**

All components of this product are listed on the U.S. Toxic Substances Control Act Chemical Inventory (TSCA Inventory) or are exempted from listing because a Low Volume or Polymer Exemption has been granted in accordance with 40 CFR 723.50.

**SARA TITLE III (USA - Superfund Amendments and Reauthorization Act)**

311/312 Hazard Categories  
 None

313 Reportable Ingredients:  
 None

**CERCLA (USA - Comprehensive Response Compensation and Liability Act)**

None

**California Prop 65, Safe Drinking Water and Toxic Enforcement Act of 1986**

There are no reportable chemicals present known to the state of California to cause cancer or reproductive toxicity.

**CPR (Canadian Controlled Products Regulations)**

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations and the MSDS contains all the information required by the Controlled Products Regulations. WHMIS Classification: Not controlled

**IDL (Canadian Ingredient Disclosure List)**

Components of this product identified by CAS number and listed on the Canadian Ingredient Disclosure List are shown in Section 2.

**DSL / NDSL (Canadian Domestic Substances List / Non-Domestic Substances List)**

Components of this product identified by CAS number are listed on the DSL or NDSL, or are otherwise in compliance with the New Substances Notification (NSN) regulations. Only ingredients classified as "hazardous" are listed in Section 2 unless otherwise indicated.

**EINECS (European Inventory of Existing Commercial Chemical Substances)**

Components of this product identified by CAS numbers are on the European Inventory of Existing Commercial Chemical Substances.

WGK Water Quality Index: nwg

VbK Index: Not applicable

**RISK PHRASES:**  
 None

**SYMBOL(S) REQUIRED FOR LABEL**  
  
 None

**SAFETY PHRASES:**  
 S2 Keep out of the reach of children.

**SECTION 16 - OTHER INFORMATION**

**Notes & full R-Phrase text**

None

**HMIS HAZARD RATINGS**

HEALTH	0	* = Chronic Health Hazard	2 = MODERATE
FLAMMABILITY	0	0 = INSIGNIFICANT	3 = HIGH
PHYSICAL HAZARD	0	1 = SLIGHT	4 = EXTREME
PERSONAL PROTECTIVE EQUIPMENT	A	Safety Glasses	

**REVISION SUMMARY:**

This MSDS has been revised in the following sections:  
 Format update

**MSDS Prepared By:**

Comprehensive Data Base, Inc.  
 P.O. Box 686  
 Seffner, FL 33583 USA  
 (863) 644 - 3298 www.compdatabase.com or www.msds.cc

The information contained herein is believed to be accurate but is not warranted to be so. Data and calculations are based on information furnished by the manufacturer of the product and manufacturers of the components of the product. Users are advised to confirm in advance of need that information is current, applicable and suited to the circumstances of use. Vendor assumes no responsibility for injury to vendee or third persons proximately caused by the material if reasonable safety procedures are not adhered to as stipulated in the data sheet. Furthermore, vendor assumes no responsibility for injury caused by abnormal use of this material even if reasonable safety procedures are followed. Any questions regarding this product should be directed to the manufacturer of the product as described in Section 1.