

MATERIAL SAFETY DATA SHEET
Hydrogel – 60-line Series

1. IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND OF THE COMPANY/UNDERTAKING

Product Name Hydrogel – 60-line Series
Product Description Component Gel used in Electrode Manufacture
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: January 12, 2008
MSDS Date: March 2, 2005

Safety Data Sheet according to EC Directive 2001/59/EC and OSHA's Hazcom Standard (29 CFR 1910.1200)

2. HAZARDS IDENTIFICATION

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|--|
| EU Main Hazards Not classified as hazardous. |
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Routes of Entry

Eye contact - Skin contact - Ingestion

Carcinogenic Status

Not considered carcinogenic by NTP, IARC, and OSHA.

Target Organs

Eye - Skin - Respiratory System

Health Effects - Eyes

Contact may cause irritation.

Health Effects - Skin

Contact may cause irritation to skin.

Health Effects - Ingestion

This product may cause slight irritation to mouth, throat and digestive system. See Section 11 for additional information.

Health Effects - Inhalation

No adverse effects are expected during normal conditions of use.

3. COMPOSITION/INFORMATION ON INGREDIENTS

| Component Name | CAS#/Codes | Concentration | R Phrases | Classification |
|--------------------|------------------------|---------------|-----------|----------------|
| Water | 7732-18-5 231-791-2 | 18 – 40% | R-None | None |
| Glycerin | 56-81-5 200-289-5 | 20 – 50% | R-None | None |
| Polymer | N/A | 14 – 40% | R-None | None |
| Polyol | Proprietary | <30% | R-None | None |
| Amorphous Silica | 7631-86-9 231-545-4 | <5% | R-None | None |
| Inorganic Salt | Proprietary | <5% | R-None | None |
| Potassium Chloride | 7447-40-7 231-211-8 | <5% | R-None | None |

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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. Contact a physician if irritation persists.

Ingestion

If swallowed, seek medical attention immediately.

Inhalation

Remove person to fresh air. Seek medical attention if symptoms persist.

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

Absorb or wipe up with suitable material. Sweep up and place in a compatible container for disposal. Spill area can be washed with water.

7. HANDLING AND STORAGE

Wear appropriate protective equipment when handling. Wash thoroughly after handling. Storage area should be: - cool - dry - well ventilated.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Occupational Exposure Standards

Exposure limits are listed below, if they exist.

Glycerin

ACGIH: 10 mg/m³ 8h TWA (mist)

OSHA: 15 mg/m³*, 5 mg/m³** 8h PEL * Total dust, **Respirable Fraction

Engineering Control Measures

No specific measures necessary. Good general room ventilation is expected to be adequate to control airborne levels.

Respiratory Protection

Respiratory protection is not required.

Hand Protection

Protective gloves.

Eye Protection

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

Body Protection

Normal work wear.

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9. PHYSICAL AND CHEMICAL PROPERTIES

| | |
|-----------------------------------|-------------------------|
| Physical State | Gel |
| Color | Translucent - Colorless |
| Odor | None to Slight |
| pH | Not determined |
| Specific Gravity | Approximately 1 |
| 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 | Partly soluble |
| Vapor Density (Air = 1) | Not applicable |
| Evaporation Rate | Not applicable |
| VOC (g/l) | Not determined |

10. STABILITY AND REACTIVITY

Stability

Stable under normal conditions.

Conditions to Avoid

Contact with incompatible materials - Excessive heat

Materials to Avoid

Strong oxidizing agents - Strong bases - Lewis or mineral acids

Hazardous Polymerization

Will not occur.

Hazardous Decomposition Products

- oxides of carbon – potassium oxides – hydrogen chloride gas – sodium – sodium oxides

11. TOXICOLOGICAL INFORMATION

Acute Toxicity

Polyol: Oral LD50 (rat) 15,900mg/kg

Potassium Chloride: Oral LD50 (rat) 2600 mg/kg

Inorganic Salt: Oral LD50 (rat) 3000 mg/kg

Amorphous Silica: Oral LD50 (rat) 22,500 mg/kg

Potassium Chloride: Ingestion of large quantities of potassium may cause adverse effects to the heart, including symptoms such as arrhythmias, due to potassium electrolyte imbalances in the blood.

Chronic Toxicity/Carcinogenicity

No relevant studies identified.

Genotoxicity

No relevant studies identified.

Reproductive/Developmental Toxicity

No relevant studies identified.

12. ECOLOGICAL INFORMATION

Mobility

No relevant studies identified.

Persistence/Degradability

No relevant studies identified.

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Bio-accumulation

No relevant studies identified.

12. ECOLOGICAL INFORMATION

Ecotoxicity

Glycerin: LC50 (goldfish) >5000 mg/l 24 hr.
Potassium Chloride: LC50 (daphnia magna) 29 mg/l 96hr

13. DISPOSAL CONSIDERATIONS

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(2001/60/EC and 2006/8/EC)

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 have not been verified for listing on the EPA Toxic Substance Control Act Chemical Inventory.

EINECS Listing

This product contains ingredients that have not been verified for listing on the European Inventory of Existing Commercial Chemical Substances (EINECS).

DSL (Canadian) Listing

This product contains ingredients that have not been verified for listing on the Domestic Substance List (DSL).

WHMIS Classification

D.2.B.

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 contains the following chemicals listed on the Massachusetts Right To Know Substance List: Glycerin (56-81-5) – Amorphous Silica (7631-86-9)

PA Right To Know Law

This product contains the following chemicals listed on the Pennsylvania Hazardous Substance List: Glycerin (56-81-5) – Amorphous Silica (7631-86-9)

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15. REGULATORY INFORMATION

NJ Right To Know Law

This product contains the following chemicals listed on the New Jersey Workplace Hazardous Substance List: Amorphous Silica (7631-86-9)

California Proposition 65

This product does not contain 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 contains no chemical that is listed in Section 313 at or above de minimis concentrations.

16. OTHER INFORMATION

NFPA Ratings

NFPA Code for Flammability - 0

NFPA Code for Health - 1

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - 0

HMIS Ratings

HMIS Code for Flammability - 0

HMIS Code for Health - 1

HMIS Code for Reactivity - 0

HMIS Code for Personal Protection - See Section 8

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

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.