

8075

**1. PRODUCT AND COMPANY IDENTIFICATION**

**Product Name** KERLIX Zinc Saline Dressing  
**Use/Size** Gauze wound dressing  
**Product Numbers** 3340  
**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 30, 2004  
**MSDS Date:** September 14, 1999

*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
Ethanol	64-17-5 200-578-6	1.0-20.0%	R11	F
Water	7732-18-5 231-791-2	>80.00%	R-None	None

**3. HAZARD IDENTIFICATION**

<b>EU Main Hazards</b> Highly flammable.
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**Routes of Entry**  
 - Eye contact - Ingestion - Inhalation - Skin contact

**Carcinogenic Status**  
 Not considered carcinogenic by NTP, IARC, and OSHA.

**Target Organs**  
 - Central Nervous System - Skin - Eye - Liver - Kidney - Heart - Respiratory System

**Health Effects - Eyes**  
 Liquid, mist or vapor will cause conjunctival irritation and possibly corneal damage.

**Health Effects - Skin**  
 Repeated or prolonged contact may produce defatting of the skin leading to irritation and dermatitis.

**Health Effects - Ingestion**  
 Swallowing may have the following effects:  
 - irritation of mouth, throat and digestive tract - central nervous system depression  
 A large dose may have the following effects:  
 - dizziness - drowsiness - headache - mental confusion - liver damage - kidney damage - lung damage - heart damage - diarrhea - vomiting - nausea

**Health Effects - Inhalation**  
 Exposure to vapor may have the following effects:  
 - irritation of nose, throat and respiratory tract - central nervous system depression  
 Exposure to vapor at high concentrations may have the following effects:  
 - dizziness - drowsiness - headache - mental confusion - liver damage - kidney damage - lung damage - heart damage

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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**

Immediately flood the skin with large quantities of water, preferably under a shower. Remove contaminated clothing and continue washing. Contaminated clothing should be washed or dry-cleaned before re-use. Obtain medical attention if blistering occurs or redness persists.

**Ingestion**

Do not induce vomiting. Have victim drink 1-3 glasses of water to dilute stomach contents. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

**Inhalation**

Remove from exposure. If there is difficulty in breathing, give oxygen. Obtain medical attention immediately.

**Advice to Physicians**

Monitor for systemic secondary effects on liver and kidney; support and treat.

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#### 5. FIRE FIGHTING MEASURES

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**Extinguishing Media**

Use foam, dry chemical or carbon dioxide. Be aware of the possibility of re-ignition. Keep containers and surroundings cool with water spray.

**Unusual Fire and Explosion Hazards**

Vapors can travel a considerable distance to a source of ignition and flashback. Flashback can occur if air temperature exceeds flash point. Be aware of possibility of re-ignition.

**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 product, in final form, is a wound dressing, and is not expected to present a spill or release hazard. Eliminate all sources of ignition. Vapors can accumulate in low areas. Prevent the material from entering drains or watercourses.

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#### 7. HANDLING AND STORAGE

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When used in small quantities good general room ventilation is expected to be adequate to control exposures. Store away from sources of heat or ignition. Storage area should be: - cool - dry - well ventilated

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#### 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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**Occupational Exposure Standards**

Exposure limits are listed below, if they exist.

**Ethanol**

UK EH40: OES 1000ppm (1900mg/m<sup>3</sup>) 8h TWA.

ACGIH: TLV 1000ppm (1880mg/m<sup>3</sup>) 8h TWA.

A4 - not classifiable as a human carcinogen.

OSHA: PEL 1000ppm (1900mg/m<sup>3</sup>) 8h TWA.

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## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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### Engineering Control Measures

Good general room ventilation is expected to be adequate to control airborne levels.

### Respiratory Protection

Respiratory protection if there is a risk of exposure to high vapor concentrations. The specific respirator selected must be based on the airborne concentration found in the workplace and must not exceed the working limits of the respirator.

### Hand Protection

Chemical resistant gloves

### Eye Protection

Chemical goggles or safety glasses with side shields

### Body Protection

Normal work wear.

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## 9. PHYSICAL AND CHEMICAL PROPERTIES

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Physical State	Non-woven cloth saturated with liquid
Color	Clear
Odor	Faint
pH	No data.
Specific Gravity	0.95
Boiling Range/Point (°C/F)	100 / 212 (for ethanol)
Melting Point (°C/F)	No data.
Flash Point (PMCC) (°C/F)	17 / 63 (for ethanol)
Vapor Pressure	No data.
Density	No data.
Solubility in Water	Completely soluble
Vapor Density (Air = 1)	2.1
Viscosity (cSt)	No data.

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## 10. STABILITY AND REACTIVITY

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### Stability

Stable under normal conditions.

### Conditions to Avoid

- Heat - High temperatures - Static discharge - Exposure to direct sunlight

### Materials to Avoid

- Strong oxidizing agents

### Hazardous Polymerization

Will not occur.

### Hazardous Decomposition Products

- oxides of carbon

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## 11. TOXICOLOGICAL INFORMATION

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**Acute Toxicity**

Low order of acute toxicity predicted.

**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**

(Ethanol)

Ethanol is not expected to bioconcentrate in fish.

**Ecotoxicity**

(Ethanol)

Tests on the following species gave a 96h LC50 of 13000mg/litre: - rainbow trout

Tests on the following species gave a 96h LC50 of 12900-15300mg/litre: - fathead minnow

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## 13. DISPOSAL

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

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## 14. TRANSPORT INFORMATION

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<b>DOT CFR 172.101 Data</b>	Not Regulated per 49 CFR 173.4 Small Quantity Exemption
<b>UN Proper Shipping Name</b>	None
<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**

F - Highly flammable

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**R phrases**

R11 - Highly flammable.

**S phrases**

S2 - Keep out of reach of children.

S7 - Keep container tightly closed.

S16 - Keep away from sources of ignition - No smoking.

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## 15. REGULATORY INFORMATION

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**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 the Domestic Substance List (DSL).

**MA Right To Know Law**

All components have been checked for inclusion on the Massachusetts Substance List (MSL). Those components present at or above the de minimus concentration include: - Ethyl Alcohol

**PA Right To Know Law**

This product contains the following chemicals found on the Pennsylvania Hazardous Substance List:  
- Ethyl Alcohol

**NJ Right To Know Law**

This product contains the following chemicals found on the NJ Right To Know Hazardous Substance List: - Ethyl Alcohol

**California Proposition 65**

This product does not contain materials which the State of California has found 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  
Delayed (Chronic) Health Hazard  
Flammable

**SARA Title III Sect. 313**

This product does not contain a chemical that is listed in Section 313 at or above de minimis concentrations.

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## 16. OTHER INFORMATION

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**NFPA Ratings**

NFPA Code for Flammability - 3

NFPA Code for Health - 1

NFPA Code for Reactivity - 0

NFPA Code for Special Hazards - None

**HMIS Ratings**

HMIS Code for Flammability - 3

HMIS Code for Health - 1

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

PEL: Permissible Exposure Limit

STEL: Short Term Exposure Limit

NTP: National Toxicology Program

IARC: International Agency for Research on Cancer

EU: European Union

R: Risk

S: Safety

**Prepared By:** EnviroNet LLC.

The information and recommendations presented in this MSDS are based on sources believed to be accurate; therefore, The 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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