**AMERICAN INTERNATIONAL INDUSTRIES**

2220 GASPAR AVENUE  
LOS ANGELES, CA 90040  
CHEM-TEL: (800) 255-3924

**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** Gena MRX Antiseptic**DATE:** 1/30/2004**REV.** NEW**Section 1. Material Identification and Information**

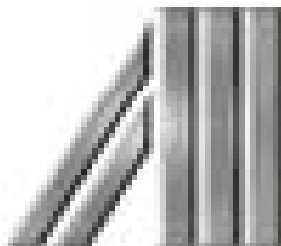
Component	CAS #	%	TOXICOLOGICAL DATA
Water	7732-18-5	42.0-46.0	None Established
Ethyl Alcohol	64-17-5	38.0-42.0	OSHA PEL/TWA: 1000ppm OSHA VPEL/TWA: 1000ppm ACGIH TVL/TWA: 1000ppm
Customer Supplied Antiseptic Oil		11.0-15.0	None Established
Glycerine	56-81-5	1.0-4.5	OSHA VPEL/TWA: 5mg/m <sup>3</sup> respirable fraction OSHA VPEL/TWA: 10mg/m <sup>3</sup> total dust ACGIH TLV/TWA: 10mg/m <sup>3</sup>
Propylene Glycol	57-55-6	1.0-3.0	None Established

**Section 2. Physical / Chemical Characteristics**

<b>Boiling Point:</b>	172.4-174.2°F (78.0-79.0°C)	<b>Specific Gravity:</b>	0.912
<b>Vapor Pressure:</b>	44.600mmHg		(@ 77°F)
<b>Vapor Density:</b>	> 1.000	<b>Evaporation Rate:</b>	Slower Than Ethyl Ether
(Air = 1)		<b>Liquid Density:</b>	7.590lbs/gal @ 77.00°F
<b>Solubility in Water:</b>	Soluble		0.912kg/L @ 25.00°C
<b>Appearance:</b>	Liquid		
<b>Odor:</b>	No Data		

**Section 3. Fire and Explosion Hazard Data**

<b>Flash Point and Method Used:</b>	60.0-70.0°F (15.5-21.1°C) (Tag Closed Cup)
<b>Auto-Ignition Temperature:</b>	N/A
<b>Flammability Limits in Air % by Volume:</b>	<b>LEL:</b> 2.6% <b>UEL:</b> 19.0%
<b>Extinguisher Media:</b>	Regular foam, carbon dioxide, or dry chemical.
<b>Special Fire Fighting Procedures:</b>	Wear a self-contained breathing apparatus with a full facepiece operated in the positive pressure demand mode with appropriate turn-out gear and chemical resistant personal protective equipment. Refer to the personal protective equipment section of this MSDS.

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Vapors are heavier than air and may travel along the ground or may be moved by ventilation and ignited by pilot lights, other flames, sparks, heaters, smoking electric motors, static discharge, or other ignition sources at locations distant from material handling point. Never use welding or cutting torch on or near drum (even empty) because product (even just residue) can ignite explosively.

**Section 4. Reactivity Hazard Data****Stability:** ☒ Stable ☐ Unstable**Incompatibility (Materials to Avoid):**

Avoid contact with: strong acids, strong bases, strong oxidizing agents.

**Hazardous Decomposition:**

May form: acrolein, carbon dioxide and carbon monoxide, various hydrocarbons.

**Hazardous Polymerization:**

☐ May Occur ☒ Will Not Occur

**Section 5. Health Hazard Data****Primary Routes of Entry:**

☒ Inhalation ☒ Skin Absorption ☒ Ingestion ☐ Eye Contact

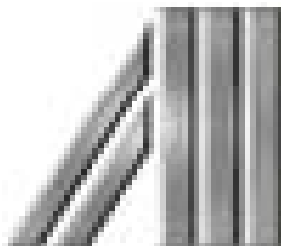
**Potential Health Effects:**

**Eye Contact:** May cause mild eye irritation. Symptoms include stinging, tearing, and redness.

**Skin Contact:** May cause mild skin irritation. Prolonged or repeated contact may dry the skin. Symptoms may include redness, burning, drying and cracking of skin, and skin burns. Although rare, skin contact with propylene glycol may cause allergic skin reaction (delayed skin rash which may be followed by blistering, scaling and other skin effects). Passage of this material into the body through the skin is possible, but it is unlikely that this would result in harmful effects during safe handling and use.

**Inhalation:** Breathing of vapor or mist is possible. Breathing small amounts of this material during normal handling is not likely to cause harmful effects. Breathing large amounts may be harmful.

**Ingestion:** Swallowing small amounts of this material during normal handling is not likely to cause harmful effects. Swallowing large amounts may be harmful.

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**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** Gena MRX Antiseptic**DATE:** 1/30/2004**REV.** NEW**Signs and Symptoms of Exposure:**

Signs and symptoms of exposure to this material through breathing, swallowing and/or passage of the material through the skin may include: stomach or intestinal upset (nausea, vomiting, diarrhea), irritation (nose, throat, airways), cough, central nervous system depression (dizziness, drowsiness, weakness, fatigue, nausea, headache, unconsciousness), involuntary eye movement, respiratory depression (slowing of the breathing rate), loss of coordination, confusion, irregular heartbeat, anesthesia, respiratory failure, coma, and death.

**Target Organ Effects:**

This product contains ethanol. Alcoholic beverage consumption has been associated with brain damage, heart damage, and pancreatitis in humans. The relevance of these findings to ethanol exposure in industrial environments is uncertain. Overexposure to this material (or its components) has been suggested as a cause of the following effects in laboratory animals: pancreatic damage, kidney damage, liver damage, brain damage, testis damage. Overexposure to this material (or its components) has been suggested as a cause of the following effects in humans: liver damage.

**Developmental Information:**

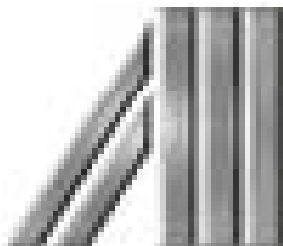
This product contains ethanol. Alcoholic beverage consumption has been associated with birth defects in humans. The relevance of this finding to ethanol exposure in industrial environments is uncertain.

**Cancer Information:**

This product contains ethanol. IARC (International Agency for Research on Cancer) has determined that exposure to ethanol through chronic human consumption of alcohol beverages can cause cancer. The relevance of this finding to ethanol exposure in industrial environments is uncertain.

**Emergency First Aid Procedures:**

Eye Contact:	If symptoms develop, move individual away from exposure and into fresh air. Flush eyes gently with water while holding eyelids apart. If symptoms persist or there is any visual difficulty, seek medical attention.
Skin Contact:	Remove contaminated clothing. Wash exposed area with soap and water. If symptoms persist, seek medical attention. Launder clothing before reuse.
Inhalation:	If symptoms develop, move individual away from exposure and into fresh air. If symptoms persist, seek medical attention. If breathing is difficult, administer oxygen. Keep person warm and quiet; seek immediate medical attention.
Ingestion:	Seek medical attention. If individual is drowsy or unconscious, do not give anything by mouth; place individual on the left side with the head down. Contact a physician, medical facility, or poison control center for advice about whether to induce vomiting. If possible, do not leave individual unattended.

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**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** Gena MRX Antiseptic**DATE:** 1/30/2004**REV.** NEW**Note to Physicians:**

Inhalation of high concentrations of this material, as could occur in enclosed spaces or during deliberate abuse, may be associated with cardiac arrhythmias. Sympathomimetic drugs may initiate cardiac arrhythmias in persons exposed to this material. Preexisting disorders of the following organs (or organ systems) may be aggravated by exposure to this material: skin, lung (for example, asthma-like conditions), liver, kidney, central nervous system, pancreas, male reproductive system. Individuals with preexisting heart disorders may be more susceptible to arrhythmias (irregular heartbeats) if exposed to high concentrations of this material.

**Section 6. Control and Protective Measures****Respiratory Protections (Specific Type):**

If overexposure has been determined or documented, a NIOSH/MSHA jointly approved air supplied respirator is advised in absence of proper environmental control. OSHA regulations also permit other NIOSH/MSHA respirators under specified conditions. (See your safety equipment supplier.) Engineering or administrative controls should be implemented to reduce exposure.

**Skin Protection:** Wear resistant gloves (consult your safety equipment supplier). To prevent repeated or prolonged skin contact, wear impervious clothing and boots.

**Eye Protection:**

Wear safety glasses in compliance with OSHA regulations (Consult your safety representative).

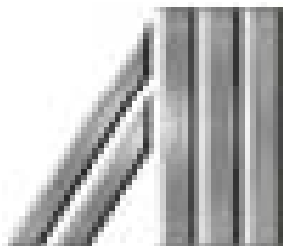
**Engineering Controls:** Provide sufficient mechanical (general and/or local exhaust) ventilation to maintain exposure below level of exposure (from known, suspected or apparent adverse effects).

**Hygienic Work Practices:**

Good Manufacturing Practices.

**Section 7. Precautions for Safe Handling and Use / Leak Procedures****Steps to be Taken if Material is Spilled or Released:**

For small spills, absorb liquid on vermiculite, floor absorbent material and transfer to hood. For large spills, eliminate all ignition sources (flares, flames including pilot lights, electrical sparks). Persons not wearing protective equipment should be excluded from area of spill until clean-up has been completed. Stop spill at once. Prevent from entering drains, sewers, streams of other bodies of water. Prevent from spreading. If runoff occurs, notify authorities as required. Pump vacuum transfer spilled product to clean containers for recovery. Absorb unrecoverable product. Transfer contaminated absorbent, soil and other materials to containers for disposal.

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**MATERIAL SAFETY DATA SHEET****PRODUCT NAME:** Gena MRX Antiseptic**DATE:** 1/30/2004**REV.** NEW**Waste Disposal Methods:**

Dispose of in accordance with all applicable local, state, and federal regulations. Do not discharge effluent containing this product into lakes, streams, ponds, or estuaries, oceans, or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit, and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**Precautions to be taken in Handling and Storing:**

Containers of this material may be hazardous when emptied. Since emptied containers retain product residues (vapor, liquid, and/or solid), all hazard precautions given in the data sheet must be observed. All five-gallon pails and larger metal containers, including tank cars and tank trucks, should be grounded and/or bonded when material is transferred. Emergency eyewash fountains and safety showers should be available in the immediate vicinity of potential exposure. Warning. Sudden release of hot organic chemical vapors or mists from process equipment operating at elevated temperature and pressure, or sudden ingress of air into vacuum equipment, may result in ignitions without the presence of obvious ignition sources. Published "autoignition" or "ignition" temperature values cannot be treated as safe operating temperatures in chemical processes without analysis of the actual process conditions. Any use of this product in elevated temperature processes should be thoroughly evaluated to establish and maintain safe operating conditions.

**Other Precautions and/or Special Hazards:**

None

**Section 8. Transport Information****DOT Information - 49 CFR 172.101:**

DOT Description: Flammable Liquids, N.O.S., 3, UN1993, II  
Container/Mode: 55 Gal Drum/Truck Package  
NOS Component: Ethyl Alcohol

**RQ (Reportable Quantity) - 49 CFR 172.101:**

N/A

**Other Transportation Information:**

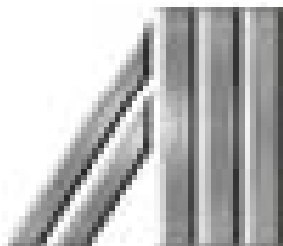
The DOT Transport Information may vary with the container and mode of shipment.

**Section 9. Regulatory Information****US Federal Regulations****TSCA (Toxic Substances Control Act) Status:**

TSCA (United States) The intentional ingredients of this product are listed.

**CERCLA RQ - 40 CFR 302.4(a):**

None listed.

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Materials without a "listed" RQ may be reportable as an "unlisted hazardous substance". See 40 CFR 302.5(b).

**SARA 302 Components - 40 CFR 355 Appendix A:**

None

**OSHA Process Safety Management 29 CFR 1910:**

None listed.

**EPA Accidental Release Prevention 40 CFR 68:**

None listed.

**Inventory Regulations:**

Inventory Status:

Not determined

**State and Local Regulations:****California Proposition 65:**

None

**New Jersey RTK Label Information:**

Ethyl Alcohol 64-17-5

**Pennsylvania RTK Label Information:**

Ethyl Alcohol 64-17-5

1,2,3-Propanetriol 56-81-5

1,2-Propanediol 57-55-6