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MATERIAL SAFETY DATA SHEET

Date Prepared – May 2012

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SECTION I - PRODUCT IDENTIFICATION

Product Name: KELEDEMA EDE ID#51825
Proper Shipping Name: Consumer Commodity, ORM-D
Product Use: ARTERIAL EMBALMING FLUID
Chemical Family: EMBALMING CHEMICAL (MIXTURE)
Whmis Classification: D2A, D1B
TDG Hazard Class: NOT REGULATED

SECTION II - HAZARDOUS INGREDIENTS

<u>Ingredients</u>	<u>Cas#</u>	<u>wt. %</u>	<u>LC50</u> (Rat.lhl)	<u>LD50</u> (Rat.oral)	<u>LD50</u> (rbt.skin)
Magnesium Sulfate Heptahydrate	10034-99-8	10-30	N/AV	N/AV	N/AV
Ethylene Glycol	107-21-1	5-10	>3.95 mg/l, aerosol, 7 hours	4.7 g/kg	1-2 g/kg

SECTION III - PHYSICAL DATA

Boiling Point	95-97°C	Specific Gravity (H2O=1):	1.152
Vapor Pressure (mm hg):	10.6	Volatile %:	N/AV
Vapor Density (air=1):	1.7	Evaporation Rate (BuAc=1.4):	0.9
Solubility in water:	miscible	pH:	N/AV
Coeff. water/oil dist:	N/AV	Freezing Point:	N/AV
Appearance & odor:	Transparent red liquid.		
Odor Threshold:	N/AV		

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability: NO
Flash Point °C (Tag Closed Cup): >115
Upper Explosion Limit: N/AV
Lower Explosion Limit: N/AV
Auto Ignition Temp: N/AV
Hazardous Combustion Products: N/AV
Explosion Data: N/AV
Rate of Burning: N/AV
Explosive Power: N/AV
Sensitivity to Static Discharge: N/AV
Means of Extinction: Dry chemical; Carbon Dioxide; "alcohol" foam; Water Spray
Special Fire Fighting Procedures: Wear self-contained breathing apparatus and complete personal protective equipment.

SECTION V - REACTIVITY DATA

Stability: Stable
Incompatibility: Caustics and strong oxidizing agents. High Temperatures
Hazardous Polymerization: May Occur -- NO Will Not Occur -- X
Conditions to Avoid: Strong Oxidizers
Hazardous Decomposition: Carbon monoxide, Carbon dioxide, and SOx

SECTION VI - TOXICOLOGICAL PROPERTIES

OCCUPATIONAL EXPOSURE LIMITS

Exposure Limit Ethylene Glycol, aerosol (TLV-C) 39.4 ppm ACGIH
Ethylene Glycol: (TWA-C) 50 ppm OSHA

Inhalation: May Cause irritation of nose and throat with headache

Eye Contact: Injury to cornea not expected

Skin: No evidence of harmful effects from available information

Ingestion: May cause nausea, vomiting, dizziness, drowsiness, blurring of vision and central nervous system effects, including irregular eye movements, convulsions and coma. Cardiac failure and pulmonary edema may develop. Severe kidney damage follows swallowing large amounts of ethylene glycol.

SECTION VII - FIRST AID

Inhalation: Remove to fresh air. If not breathing give artificial respiration, then oxygen if necessary. Call a physician. May cause irritation of nose and throat with headache *when heated*.

Eye Contact: Immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.

Skin Contact: Immediately flush skin with plenty of water for at least 15 minutes. Remove contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Induce vomiting immediately by giving two glasses of water and sticking finger down throat. Never give anything by mouth to an unconscious person. Immediately call a physician.

SECTION VIII - PREVENTIVE MEASURES

Spill and Leak Procedures: Absorb liquid with vermiculite or dry earth. Flush area with plenty of water.

Waste Disposal: Dispose of residue in compliance with Federal, State and local regulations.

Personal Protective Equipment

Respiratory protection: Use adequate ventilation

Protective Gloves: Neoprene, Butyl or Polyvinyl Gloves.

Eye Protection: Goggles and Face Shield recommended

Other Protective equipment: Impervious gown or apron when circumstances require.

Ventilation: Use adequate ventilation

Storage and Handling

Handling: Avoid prolonged or repeated contact with skin. Wash thoroughly with soap and water after handling.

Storage: Keep containers closed. Store in cool, well-ventilated area away from open flame.

SECTION IX - ADDITIONAL INFORMATION

Abbreviations:

TLV:	Threshold Limit Values
STEL:	Short-term Exp. Level
TWA:	8 hr Time-Weighted Average
ACGIH	American Conference of Governmental Industrial Hygienists
OSHA:	Occupational Safety and Health Administration
N/AV:	Not Available

SECTION X - PREPARATION INFORMATION

Prepared by: Kelco Supply Company, Brooklyn Park, MN

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