

**MATERIAL SAFETY DATA SHEET**

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SECTION I - PRODUCT IDENTIFICATION

Product Name: KELNEUTRAL NEU ID# 51826
Proper Shipping Name: Consumer Commodity, ORM-D
Product Use: ARTERIAL EMBALMING FLUID
Chemical Family: N/A
Whmis Classification: D2A, D2B
TDG Hazard Class: NOT REGULATED

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	CAS#	wt. %	LC50 (Rat.lhl)	LD50 (Rat.oral)	LD50 (rbt.skin)
Ethylene Glycol (Standard)	107-21-1	23	10.9 g/kg	4700 mg/kg	9530mg/kg

SECTION III - PHYSICAL DATA

Boiling Point:	197 C	Specific Gravity (H2O=1):	1.115
Vapor Pressure (mm hg):	.08	Volatile %:	n/a
Vapor Density (air=1):	2.1	Evaporation Rate (BuAe=1):	.01
Solubility in water:	100%	pH:	n/a
Coeff. water/oil dist:	n/a	Freezing Point:	n/a
Appearance & odor:	Clear, colorless, slightly sweet odor	Odor Threshold:	n/a

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability:	YES combustible liquid
Flash Point:	116 C
Upper Explosion Limit:	15.3 (ethylene glycol)
Lower Explosion Limit:	3.2 (ethylene glycol)
Auto Ignition Temp:	n/a
Hazardous Combustion Products:	carbon monoxide, carbon dioxide
Explosion Data:	n/a
Rate of Burning:	n/a
Explosive Power:	n/a
Sensitivity to Static Discharge:	n/a
Means of Extinction:	carbon dioxide, alcohol foam, dry chemical, water spray
Special Fire Fighting Procedures:	Wear self-contained breathing apparatus and complete personal protective equipment.

SECTION V - REACTIVITY DATA

Stability:	stable
Incompatibility:	Strong alkali and oxidizing agents
Hazardous Polymerization:	will not occur
Conditions to Avoid:	keep away from heat, sparks and flames
Hazardous Decomposition:	carbon dioxide, carbon monoxide

SECTION VI - TOXICOLOGICAL PROPERTIES

OCCUPATIONAL EXPOSURE LIMITS

Exposure Limit:	Ethylene Glycol (TLV-C) 50 ppm ACGIH (TLV-STEL) n/a (TLV-TWA) n/a
Inhalation:	May cause irritation of the nose and throat with headache, particularly from mists. May cause nausea, vomiting, dizziness and irregular eye movements.
Eye Contact:	Vapors can cause eye irritation; corneal injury is unlikely.
Skin:	No evidence of adverse effects from available information.
Ingestion:	May cause abdominal discomfort or pain, nausea, vomiting, dizziness. Cardiac failure and pulmonary edema may develop. Severe kidney damage follows the swallowing of large volumes of ethylene glycol. May be fatal.

SECTION VII - FIRST AID

Inhalation:	Remove source of contamination or move victim to fresh air. If breathing has stopped give artificial respiration, obtain medical attention immediately.
Eye Contact:	Flush eyes with lukewarm water for at least 15 minutes, holding the eye lids open. If irritation persists, obtain medical attention immediately.
Skin Contact:	Remove contaminated clothing flush immediately with lukewarm water for at least 20 minutes. If irritation persists, obtain medical attention immediately.
Ingestion:	Induce vomiting immediately, obtain medical attention immediately.

SECTION VIII - PREVENTIVE MEASURES

Spill and Leak Procedures:	Avoid breathing vapor. Ventilate area. Flush small spills of this material with large amounts of water.
Waste Disposal:	Dispose of in accordance with all applicable regulations.

Personal Protective Equipment

Respiratory Protection:	Use NIOSH approved equipment.
Protective Gloves:	PVC, nitrile or neoprene rubber should be worn to prevent prolonged or repeated skin contact.
Eye Protection:	Chemical safety goggles should be worn to prevent eye contact.
Other Protective Equipment:	Eye wash fountain and safety shower must be available in areas where this material is used.
Ventilation:	Local exhaust ventilation to control airborne vapors.

Storage and Handling

Handling:	Avoid contact with eyes, skin and clothing. Avoid breathing vapors. Do not store below 35F or above 105F.
Storage:	Store in a cool, dry ventilated area. Keep away from heat, sparks and flames. Wash thoroughly with soap and water after handling.

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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