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MATERIAL SAFETY DATA SHEET
Date Prepared – January 2010

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SECTION I - PRODUCT IDENTIFICATION

Product Name: KELJAUNDICE JAU ID#51824
Product Use: ARTERIAL EMBALMING
Chemical Family: EMBALMING CHEMICAL (MIXTURE)
Whmis Classification: B2, D1A D2B
TDG Hazard Class: Flammable Liquid, Class 3 N.O.S.: 3 UN1993 PKG. III (Methanol, Formaldehyde) Limited Quantity

SECTION II - HAZARDOUS INGREDIENTS

Ingredients	Cas#	wt. %	LC50 (Rat.lhl)	LD50 (Rat.oral)	LD50 (rbt.skin)
Formaldehyde:	50-00-0	9.6	200mg/m3/4h	100 mg/kg	270mg/kg
Methanol:	67-56-1	70	64000ppm/4h	5628 mg/kg	15800 mg/kg

SECTION III - PHYSICAL DATA

Boiling Point: 65.5 C	Specific Gravity (H2O=1): .0875
Vapor Pressure (mm Hg): 70 (estimate)	Volatile %: 100
Vapor Density (air=1): >1	Evaporation Rate (BuAe=1): <1
Solubility in water: 100%	pH: 7.0 - 7.5
Coeff. water/oil dist: N/AV	Freezing Point: N/AV
Appearance & odor: Orange liquid, mild irritating odor	Odor Threshold: N/AV

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flammability: YES Flammable Liquid.
Flash Point (Method): 26.6 C (Closed Cup)
Upper Explosion Limit: 36.5 (methanol)
Lower Explosion Limit: 5.5 (methanol)
Auto Ignition Temp: N/AV
Hazardous Combustion Products: Refer to "Hazardous Decomposition", next section
Explosion Data: N/AV
Rate of Burning: N/AV
Explosive Power: N/AV
Sensitivity to Static Discharge: N/AV
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. Reaction with hydrochloric acid may form bis-chloromethyl ether which is a suspected human carcinogen according to ACGIH and carcinogenic to humans according to IARC
Hazardous Polymerization: Will not occur
Conditions to Avoid: Keep away from heat, sparks and flames
Hazardous Decomposition: Carbon dioxide, carbon monoxide, hydrogen and formaldehyde gas.

SECTION VI - TOXICOLOGICAL PROPERTIES

OCCUPATIONAL EXPOSURE LIMITS

Exposure Limit: Formaldehyde: (TLV-C) 0.3 ppm ACGIH (TLV-STEL) 2.0 ppm OSHA (TLV-TWA) 0.75 ppm OSHA
Methanol: (TLV-C) 250 ppm ACGIH, (TLV-TWA) 200 ppm ACGIH,
Inhalation: Irritation of upper respiratory tract. Bronchitis and broncho-pneumonia. Inflammation of eyelids. Methanol vapors can cause dizziness, fatigue, nausea and intestinal disturbance. Massive exposures can cause acute poisoning, visual impairment and death.
Eye Contact: Vapors can cause eye irritation; liquid can cause severe eye burns including permanent eye damage.
Skin: Hardening or tanning of skin irritation, cracking of skin and dermatitis can also occur. Prolonged or repeated skin contact can result in skin sensitization.
Ingestion: Severe abdominal pain, unconsciousness, collapse, temporary or permanent visual impairment, death.
NOTE: Formaldehyde is listed by IARC as probably carcinogenic to humans (group 2A). Listed by the National Toxicology Program as reasonably anticipated to be a carcinogen. Listed by the ACGIH as a suspected Human carcinogen. OSHA in its Formaldehyde standard considers formaldehyde a carcinogen.

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: Avoid direct contact; remove contaminated clothing flush immediately with lukewarm water for at least 15 minutes. If irritation persists, obtain medical attention immediately.
Ingestion: Induce vomiting immediately, obtain medical attention immediately.

SECTION VIII - PREVENTIVE MEASURES

Spill & Leak Procedures: Avoid breathing vapor. Ventilate area. Eliminate ignition sources. Neutralize with diluted solutions of ammonia. Contain spill with inert absorbent material.
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 equip.: 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 (1.6C) or above 105F (40.6C).
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. Limits
TWA: Time-Weighted Average
ACGIH: American Conference of Governmental Industrial Hygienists
OSHA: Occupational Safety and Health Administration
N/AV: Not Available N/AP: Not Applicable

SECTION X - PREPARATION INFORMATION

Prepared by: Kelco Supply Company, Minneapolis, MN
Telephone: 800-328-7720
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