

# **KEL-CAUT** PENATRATING CAUTERANT

# **Safety Data Sheet**

# **Section 1: Identification**

**Product identifier** 

Product Name • Kel-Caut

Recommended use • Surface Embalming

Details of the supplier of the safety data sheet

Manufacturer • Kelco Supply

20000 176th Street NW Big Lake, MN 55309

United States

www.kelcosupply.com info@kelcosupply.com

Telephone (General) • 800-328-7720

# **Emergency telephone number**

Manufacturer • 800-424-9300 - CHEMTREC

Manufacturer • 202-483-7616 - CHEMTREC International

### **SECTION 2: HAZARD IDENTIFICATION**

# **Classification of Mixture**

Pink liquid. Mild odour.

### **Label Elements:**

### Signal Words

Danger, Warning

#### **Hazard Statements**

H226: Flammable Liquid and Vapour

H302: Harmful if Swallowed

H313: May be Harmful in Contact with Skin

H331: Toxic if Inhaled

H315: Causes Skin Irritation

H319: Causes Serious Eye Irritation

H317: May Cause an allergic skin reaction

H350: May cause cancer

H371: May cause damage to organs

### **Precautionary Statements - Prevention**

P201: Obtain special instructions before use.

P202: Do not handle until all safety precautions have been read and understood.

P210: Keep away from heat, sparks, open flames and hot surfaces. - No smoking.

P233: Keep container tightly closed.

P243: Take precautionary measures against static discharge.

P260: Do not breathe fumes, mists, vapours or spray.

P264: Wash contacted areas thoroughly after handling.

P270: Do not eat, drink or smoke when using this product.

P271: Use only outdoors or in a well ventilated area.

P272: Contaminated work clothing should not be allowed out of the workplace.

P273: Avoid release to the environment

P280: Wear protective gloves, protective clothing and eye or face protection.

### **Precautionary Statements - Response**

P301+P311+P330: IF SWALLOWED: call a POISON CENTRE or doctor. Induce vomiting, rinse mouth and seek medical attention.

P302+P352+P362: IF ON SKIN: Take off all contaminated clothing. Wash with plenty of water for at least 20 minutes.

P304+P340: IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.

P305+P351+P338: IF IN EYES: Rinse cautiously with water for at least 20 minutes. Remove contact lenses, if present and easy to do. Continue rinsing.

P308+P313: If exposed or concerned: Get medical advice.

P332+P313: If skin irritation occurs: Seek immediate medical attention.

P333+P313: If skin irritation or rash occurs: Seek immediate medical attention.

P337+P313: If eye irritation persists: Seek immediate medical attention.

P370+P378: In case of fire, use carbon dioxide, alcohol foam, dry chemical or water spray.

### **Precautionary Statements - Storage**

P405: Store locked up.

P403+P233: Store in a well-ventilated place. Keep container tightly closed.

### **Precautionary Statements - Disposal**

P501: Review federal, provincial or state, and local government requirements prior to disposal. For large quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service.

# **Hazard Symbols**







Skull and Cross Bones



**Exclamation Mark** 



Health Hazard

### **SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS**

**Table 3.1: Ingredients of Mixture** 

5 o. i. mgredients of mixture					
Chemical Name	CAS Number	EC Number	Concentration %		
Formaldehyde	50-00-0	200-001-8	10		
Methanol	67-56-1	200-659-6	39-50		

### **SECTION 4: FIRST-AID MEASURES**

### **Necessary First-Aid Measures upon:**

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 warm water for at least 20 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 20 minutes. If irritation persists, obtain medical

attention immediately.

Induce vomiting immediately, obtain medical attention immediately.

## **Most Important Effects**

Toxic if swallowed.

Vapours can cause permanent eye damage. Prolonged exposure to skin can cause dermatitis. Repeated exposure to skin can cause sensitization

Inhalation of large amounts is toxic.

### **Most Important Symptoms**

Immediate Irritation of effected area

Nausea and abdominal pain

Inflammation of eyelids

Delayed Collapse and Unconsciousness

Broncho-pneumonia

#### **Additional Information**

Clinical Testing Clinical tests to determine toxicity have been performed on rat and rabbit. See

table 11.1 for details. Clinical testing has been performed to determine

carcinogenicity. See Section 1 for details.

Medical Monitoring Treat symptomatically. Immediate medical attention is required.

Antidotes No antidotes have been listed for this mixture.

Contraindications No contraindications have been listed for this mixture.

#### **SECTION 5: FIRE-FIGHTING MEASURES**

#### **Suitable Extinguishing Media**

Carbon dioxide, alcohol foam, dry chemical, water spray.

### Specific Hazards arising for Combustion of the Product

May form formaldehyde gas, carbon oxides, hydrogen, formic acid and various Hydrocarbons.

#### **Special Protective Actions for Fire-Fighters**

Wear self-contained breathing apparatus and complete personal protective equipment.

### **SECTION 6: ACCIDENTAL RELEASE MEASURES**

Personal Precautions Avoid breathing vapour. Ventilate area. Eliminate ignition sources.

**Protective Equipment** 

Respiratory protection: Use NIOSH approved respiratory 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.

Emergency Procedures Ventilate area using local exhaust ventilation to control airborne vapours.

Eliminate ignition sources.

Environmental Cautions This product is listed as harmful to aquatic life. Please refer to Section

12 for complete ecological effects.

If large amounts are spilled please notify your local environmental agency.

#### Methods and Materials for:

Containment Neutralize with diluted solutions of ammonia. Contain spill with inert

absorbent material.

Clean Up Review federal, provincial or state, and local government requirements

prior to disposal. For large quantities, if recycling or reclaiming is not possible, use a commercial waste disposal service. Please refer to

Section 13 for complete disposal procedures.

#### **SECTION 7: HANDLING AND STORAGE**

#### **Precautions for Safe Handling**

Specific Avoid contact with eyes, skin and clothing. Avoid breathing vapours.

Wash thoroughly with soap and water after handling. Please refer to

Section 6 for details on appropriate PPE.

General Hygiene Considerations

Eating, drinking, smoking and applying cosmetics in work areas is

prohibited.

Remove all contaminated clothing and PPE before entering eating areas.

#### **Precautions for Safe Storage**

Store in a cool, dry, ventilated area. Keep away from heat, sparks and

flames. Do not store below 35°F (1°C) or above 105°F (40°C).

### **SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION**

#### **Control Parameters**

# **Table 8.1: Exposure Limits**

Table 0.1. Exposure Ellints						
TLV-C (ACGIH)	TLV-TWA	TLV-TWA	TLV-STEL (OSHA)			
	(A O O II I)	(00114)	T			
	(ACGIH)	(OSHA)				
0.3ppm	0.75ppm	Not Available	2.0ppm			
250ppm	Not Available	200ppm	Not Available			
	TLV-C (ACGIH)  0.3ppm	TLV-C (ACGIH) TLV-TWA (ACGIH)  0.3ppm 0.75ppm	TLV-C (ACGIH)  TLV-TWA  TLV-TWA  (ACGIH)  (OSHA)  0.3ppm  0.75ppm  Not Available			

### **Exposure Controls**

Keep container tightly closed. Do not handle until all safety precautions have been read and understood. Ensure all personnel wear appropriate PPE at all times when handling this product. Contaminated work clothing should not be allowed out of the workplace.

### **Engineered Protection Measures**

Use local exhaust ventilators to control airborne vapours.

#### **Individual Protection Measures**

General hygiene measures and appropriate PPE should be used in conjunction with the afore mentioned engineered measures of protection. Also see Section 5 for additional protection measures in case of fire.

Eye/Face Protection Chemical safety goggles should be worn to prevent eye contact.

Skin Protection PVC, nitrile or neoprene rubber gloves should be worn to prevent

prolonged or repeated skin contact.

Respiratory Protection NIOSH approved respiratory equipment should be worn to prevent

inhalation of vapours.

Thermal Hazards This mixture does not present a thermal hazard under normal use.

#### **SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES**

### Information on Physical and Chemical Properties of Mixture

Appearance Pink liquid
Odour Mild odour

Odour Threshold 0.05-0.5 (Formaldehyde)

pH 7.0-7.5

Melting/Freezing Point Not Available
Boiling Point and Range 64.4°C

Flash Point 38.8°C

Evaporation Rate(BuAe=1) <1

Flammability (Solid, Gas)

Yes as Solid

Upper Explosive Limit 73% Lower Explosive Limit 6%

Vapour Pressure 43mmHg (at 22°C)

Vapour Density (air=1) >1

Relative Density Not Available

Solubility 100%

Partition Coefficient: n-octanol/water Not Available Auto-Ignition Temp Not Available Decomposition Temp Not Available Viscosity Not Available

### **SECTION 10: STABILITY AND REACTIVITY**

Reactivity Not normally reactive

Chemical Stability Stable

Possibility of Hazardous Reactions Hazardous polymerization does not occur.

Conditions to Avoid There are no specific conditions to avoid during normal use

of this product.

Incompatibility Materials Strong alkali and oxidizing agents. Hydrochloric acid.

Hazardous Decomposition Products

Carbon dioxide, carbon monoxide, hydrogen and

formaldehyde gas. 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

#### **SECTION 11: TOXICOLOGICAL INFORMATION**

## **Toxicological Data of Ingredients**

Acute Toxicity This substance is classified as a Toxic Material – Toxic if

Inhaled, according to GHS Regulation, Hazard Category 3.
This substance is classified as a Harmful Material – Harmful if Swallowed according to GHS Regulation, Hazard Category 4.
This substance is classified as a Possible Harmful Material – May be Harmful in contact with Skin according to GHS

Regulation, Hazard Category 5.

Skin Corrosion/Irritation This substance is classified as a Skin Irritant – Causes Skin

Irritation according to GHS Regulation, Hazard Category 2.

Serious Eye Damage/Irritation This substance is classified as a Serious Eye Irritant – Causes

Serious Eye Irritation according to GHS Regulation, Hazard

Category 2A.

Respiratory or Skin Sensitization This substance is classified as a Skin Sensitizer – May Cause an

Allergic Skin Reaction according to GHS Regulation, Hazard

Category 1.

Germ Cell Mutagenicity Not classified as a germ cell mutagenic hazard.

Carcinogenicity This substance is categorized as a Known or presumed human

carcinogen - May Cause Cancer according to GHS Regulations,

Hazard Category 1A. Formaldehyde is listed by IARC as

carcinogenic to humans, on the basis of human evidence (group

1A).

Reproductive Toxicity Not classified as a reproductive hazard.

STOT – Single Exposure This substance is classified as a possible hazard for target organ

toxicity in a single exposure – May Cause Damage to Organs

according to GHS Regulations, Hazard category 2.

STOT – Repeated Exposure Not classified as a hazard for target organ toxicity in repeated

exposure.

Aspiration Hazard Not classified as an aspiration hazard.

Routes of Exposure Inhalation, Eye Contact, Skin Contact, Ingestion

Effects of Acute Exposure via:

Inhalation Irritation of upper respiratory tract, inflammation of eyelids, visual

impairment, bronchitis, broncho-pneumonia, death. Methanol vapours can cause dizziness, fatigue, nausea and intestinal

disturbance.

Eye Contact Vapours can cause eye irritation; liquid can cause severe eye

burns including permanent eye damage.

Skin Contact Hardening or tanning of skin, irritation of skin, cracking of skin,

dermatitis. Prolonged or repeated skin contact can result in skin

sensitization

Ingestion Severe abdominal pain, collapse, unconsciousness, temporary

visual impairment, permanent visual impairment, death

Chronic effects Formaldehyde may the potentially cause carcinogenic effects.

See above information for details.

**Table 11.1: Toxicity Data for Hazardous Ingredients** 

	Chemical Name	LC <sub>50</sub> (Rat.lhl)	LD <sub>50</sub> (Rat.oral)	LD <sub>50</sub> (Rbt.skin)	
	Formaldehyde 250ppm  Methanol 64,000ppm/4hr		100mg/kg	270mg/kg	
			13000mg/kg	20,000mg/kg	

Interactive Effects

No interactive effects are listed for this mixture.

#### **SECTION 12: ECOLOGICAL INFORMATION**

# **Ecotoxicological Properties**

Acute Aquatic Toxicity

This product is classified as harmful to aquatic life: harmful to

invertebrates according to GHS regulations.

Chronic Aquatic Toxicity

This product is classified as not toxic to aquatic life according to GHS

regulations.

Persistence and Degradability

Bioaccumulative Potential Mobility in Soil

Other Adverse Effects

This product is considered to be readily biodegradable. This product is not considered to be bioaccumulative. This product is considered to have low soil mobility.

erse Effects Methanol levels over 0.1% may be toxic to sewage bacteria.

#### **SECTION 13: DISPOSAL CONSIDERSATIONS**

Please refer to Sections 7 and 8 for proper storage, handling and personal protective measures.

#### **Disposal Containers and Methods**

Product Disposal Avoid disposal of this product via sewage systems.

Review federal, provincial or state, and local government requirements

prior to disposal.

Disposal by controlled incineration or by secure land fill may be

acceptable.

Container Disposal Empty containers may contain hazardous residue. Return to supplier for

reuse if possible. Never weld, cut or grind empty containers. If disposing of containers, ensure they are well rinsed with water, then disposed of at

an authorised landfill. After cleaning, all existing labels should be

removed.

### **Properties affecting Disposal Options**

Methanol levels over 0.1% may be toxic to sewage bacteria.

### **Special Precautions for Incinerators or Landfills**

No special precautions for incinerators or landfills are listed for this product. See Section 12 for complete ecological information.

#### **SECTION 14: TRANSPORT INFORMATION**

Regulation	UN Number	Description	Class	Group	Symbols
TDG <sup>1</sup>	UN1993	Flammable Liquid n.o.s	3	III	1
DOT <sup>1,2</sup>	UN1993	Flammable Liquid n.o.s. (contains Formaldehyde, Methanol)	3	III	G

<sup>&</sup>lt;sup>1</sup> This material may be shipped as Limited Quantity when in containers with a volume no larger than 5.0L and in packages not exceeding 30 kg gross mass.

#### **SECTION 15: REGULATORY INFORMATION**

Canadian Environmental Protection Act (CEPA) information: All ingredients listed appear on the Domestic Substances List (DSL).

This product has been classified in accordance with the hazard criteria of the CPR and the SDS contains all of the information required by the CPR.

#### **US Federal Information:**

TSCA: All listed ingredients appear on the TSCA inventory.

CERCLA Reportable Quantity (RQ) (40 CFR 117.302): formaldehyde (100 lbs / 45.4 kg); Methanol (5000 lbs / 2270 kg).

### **ECPRA (SARA TITLE III):**

Section 302, Extremely Hazardous Substances, 40 CFR 355: This product contains an Extremely Hazardous Substance under SARA Section 302. Contains: formaldehyde.

Sections 311 and 312, 40 CFR 370 Hazard Classes: Fire Hazard; Health Hazard; Chronic Health Hazard. See section 302 SARA Title III and 40 CFR 355 Appendix A & B for additional information regarding threshold quantities for the reporting of hazardous chemicals.

Section 313, Toxic Chemicals Notification, 40 CFR 372: This product may be subject to SARA notification requirements, since it contains Toxic Chemical constituents above their de minimus concentrations. This product contains: formaldehyde; Methanol.

# **US State Right to Know Laws:**

California Proposition 65: This product contains a chemical known to the State of California to cause cancer. Contains: formaldehyde.

# Other U.S. State "Right to Know" Lists

The following chemicals are specifically listed by individual States: formaldehyde (CA, MA, MN, NJ, PA, RI); Methanol (CA, MA, MN, NJ, PA, RI); Methyl salicylate (NJ, PA, RI).

<sup>&</sup>lt;sup>2</sup> See 49 CFR Section 173.27 and 175.75 for complete disclosure of quantity limitations.

#### SECTION 16: OTHER INFORMATION

The OSHA Hazard Communication Standard (HCS) is now aligned with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS).

### Legend of Abbreviations

GHS - Globally Harmonized System of Classification and Labelling of Chemicals

SDS – Safety Data Sheet

OECD - The Organisation for Economic Co-operation and Development

CAS - Chemical Abstract Service

EC - European Commission

TLV - Threshold Limit Value

TLV-C - Threshold Limit Value - Ceiling Limit

TWA – Time Weighted Average

STEL - Short-term Exposure Limits

ACGIH – American Conference of Governmental Industrial Hygienists 1993-1994

OSHA – Occupational Safety and Health Administration

STOT - Specific Target Organ Toxicity

LC - Lethal Concentration

LD - Lethal Dose

Ihl - Inhalation

Rbt - Rabbit

**UN – United Nations** 

TDG – Recommendations on the Transport of Dangerous Goods, published by the UN

PPE - Personal Protective Equipment

NIOSH - The National Institute for Occupational Safety and Health

IARC - International Agency for Research on Cancer

WHMIS - Workplace Hazardous Materials Information System

PAN - Pesticide Action Network

USGS - United States Geological Survey

CPR - Canadian Controlled Products Regulations

ECPRA - Emergency Planning and Community Right-to-Know Act

CERCLA – Comprehensive Environmental Response, Compensation, and Liability Act

TSCA – Toxic Substances Control Act

SARA - Superfund Amendments and Reauthorization Act

DOT – U.S. Department of Transportation

HCS - Hazard Communication Standard

#### Prepared By:

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