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SECTION 1: IDENTIFICATION

Product Identifier:	**Trioxin for Restoration**
CAS Number:	Not applicable – refer to Section 3 for details on ingredients
Annex VI Index Number:	Not applicable – refer to Section 3 for details on ingredients
Product Identifier Code:	1-020
Identified Uses of Product:	Specialty Embalming

Details of Supplier:

H.S. ECKELS & COMPANY (CANADA) LTD.
23 ADMIRAL PLACE
GUELPH, ONTARIO
N1G 4N4
(519) 824-8020

Emergency Telephone Number (613) 996-6666 (Canutec)

SECTION 2: HAZARD IDENTIFICATION

Classification of Mixture

Viscous, opaque, pink liquid. Floral odour.

Label Elements:

Signal Words
Warning

Hazard Statements
H302: Harmful if Swallowed
H320: Causes Eye Irritation
H373: May cause damage to organs through prolonged or repeated exposure.

Precautionary Statements – Prevention
P210: Keep away from heat, sparks, open flames and hot surfaces.

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P264: Wash contacted areas thoroughly after handling.
P270: Do not eat, drink or smoke when using this product.
P280: Wear protective gloves, protective clothing and eye or face protection.

Precautionary Statements - Response
P301+P312+P330: IF SWALLOWED: call a POISON CENTRE. Rinse mouth.
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.
P337+P313: If eye irritation persists: Seek medical attention.
P370+P378: In case of fire, use carbon dioxide, alcohol foam, dry chemical or water spray.

Precautionary Statements - Storage
P403: Store in a well ventilated area.

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.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

Table 3.1: Ingredients of Mixture

Chemical Name	CAS Number	EC Number	Concentration %
Diethylene Glycol	111-46-6	203-872-2	10
Formaldehyde	50-00-0	200-001-8	<1
Methanol	67-56-1	200-659-6	<1

SECTION 4: FIRST-AID MEASURES

Necessary First-Aid Measures upon:

Inhalation	Remove source of contamination or move victim to fresh air.
Eye Contact	Flush eyes with lukewarm warm water for at least 20 minutes, holding the eye lids open. If irritation persists, obtain medical attention.
Skin Contact	Avoid direct contact. If irritation develops, obtain medical attention.
Ingestion	Rinse mouth. Obtain medical attention if you feel unwell.

Most Important Effects

May be harmful if swallowed.
Contact with eyes causes irritation.

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Most Important Symptoms

Immediate	Irritation of effected area
Delayed	Nausea and abdominal pain Inflammation of eyelids

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. Medical attention may be required.
Antidotes	No antidotes have been listed for this mixture.
Contraindications	No contraindications have been listed for this mixture.

SECTION 5: FIRE-FIGHTING MEASURES

Flammability of the Product

Insufficient data; may be slightly flammable in the presence of open flames, but should pose a low flammability risk.

Suitable Extinguishing Media

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

Specific Hazards arising for Combustion of the Product

May form carbon oxides.

Special Protective Actions for Fire-Fighters

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

SECTION 6: ACCIDENTAL RELEASE MEASURES

Personal Precautions	Ventilate area. Eliminate ignition sources.

Protective Equipment

Respiratory protection:	Use NIOSH approved respiratory equipment if required.
Protective Gloves:	PVC, nitrile or neoprene rubber may be worn to prevent prolonged 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.

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Environmental Cautions	This product is not 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. 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

Chemical Name	TLV-C (ACGIH)	TLV-TWA (ACGIH)	TLV-TWA (OSHA)	TLV-STEL (OSHA)
Diethylene Glycol	Not Available	100 mg/m^3	Not Available	Not Available
Formaldehyde	0.3ppm	0.75ppm	Not Available	2.0ppm
Methanol	250ppm	Not Available	200ppm	Not Available

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Exposure Controls

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 may be worn to prevent prolonged skin contact.
Respiratory Protection	NIOSH approved respiratory equipment may 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	Viscous, opaque, pink liquid
Odour	Floral odour
Odour Threshold	Not Available
pH	7.0-7.5
Melting/Freezing Point	Not Available
Boiling Point and Range	62.7°C - 100°C
Flash Point	>90°C
Evaporation Rate(BuAe=1)	<1
Flammability (Solid, Gas)	Not Available
Upper Explosive Limit	Not Available
Lower Explosive Limit	Not Available
Vapour Pressure	Not Available
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

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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
Hazardous Decomposition Products	Carbon monoxide

SECTION 11 : TOXICOLOGICAL INFORMATION

Toxicological Data of Ingredients

Acute Toxicity	This substance is classified as a Potentially Harmful Material – May Be Harmful if Swallowed, according to GHS Regulation, Hazard Category 5.
Skin Corrosion/Irritation	Not classified as a Skin Irritant.
Serious Eye Damage/Irritation	This substance is classified as an Eye Irritant – Causes Eye Irritation according to GHS Regulation, Hazard Category 2B.
Respiratory or Skin Sensitization	Not classified as a Skin Sensitizer.
Germ Cell Mutagenicity	Not classified as a germ cell mutagenic hazard.
Carcinogenicity	Not classified as a Carcinogen.
Reproductive Toxicity	Not classified as a reproductive hazard.
STOT – Single Exposure	Not classified as a hazard for target organ toxicity in a single exposure.
STOT – Repeated Exposure	May be damaging to organs through prolonged or repeated exposure.
Aspiration Hazard	Not classified as an aspiration hazard.
Routes of Exposure	Eye Contact, Ingestion

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Effects of Acute Exposure via:

Eye Contact	Liquid can cause eye irritation, including reversible eye damage.
Ingestion	Nausea, diarrhoea

Table 11.1: Toxicity Data for Hazardous Ingredients

Chemical Name	LC_{50} (Rat.Ihl)	LD_{50} (Rat.oral)	LD_{50} (Rbt.skin)
Diethylene Glycol	Not Available	8200 mg/kg	> 2000 mg/kg
Formaldehyde	250ppm	100mg/kg	270mg/kg
Methanol	64,000ppm/4hr	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 not toxic to aquatic life according to GHS regulations. This mixture is not considered ecologically toxic (PAN Pesticide Database).
Chronic Aquatic Toxicity	This product is classified as not toxic to aquatic life according to GHS regulations.
Persistence and Degradability	This product is considered to be readily biodegradable.
Bioaccumulative Potential	This product is not considered to be bioaccumulative.
Mobility in Soil	This product is considered to have low soil mobility.
Other Adverse 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

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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

DOT (US)
IMDG
IATA

- Not classified as dangerous goods according to transport regulations, methanol and formaldehyde concentrations are in extremely low/trace quantities (less than 1%).

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.

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.

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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);

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

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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:

H.S. ECKELS & COMPANY (CANADA) LTD.
23 ADMIRAL PLACE
GUELPH, ONTARIO
N1G 4N4
(519) 824-8020

This Safety Data Sheet was prepared by H.S. Eckels & Company (Canada) Ltd using information provided by the Globally Harmonized System of Classification and Labelling Chemicals – Fifth Revised Edition 2013.
The information in the Safety Data Sheet is put forth to guide persons in safe conduct when exposed to Trioxin for Restoration.
H.S. Eckels & Company (Canada) Ltd expressly disclaims all explicit or implied warranties and assumes no responsibilities for the accuracy or completeness of the data contained herein.
The data in this SDS does not apply to the exposure in any other process than those mentioned in Section 1. The data in this SDS does not apply to the exposure to any product other than Trioxin for Restoration.
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Revision date: Oct. 31, 2016

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