



# SAFETY DATA SHEET

## Section 1 – Product and Company Identification

**THE EMBALMERS' SUPPLY COMPANY**  
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**Trade Name:** Edema Pro  
**Product Type:** Supplementary Embalming Chemical

**Product Code:** 23025

**Revision Date:** Sep-14

## Section 2 – Hazards Identification

**Appearance:** Clear Liquid    **Odor:** No Odor

**Emergency Overview:** **Warning** Harmful if swallowed. May cause damage to organs through prolonged or repeated exposure.    **Target Organs:** Category 2 through repeated exposure. Kidneys, heart, central nervous system.



**Potential Health Effects:**

**Inhalation:** Ethylene Glycol may cause respiratory tract irritation. Vapor inhalation generally not a problem unless heated or misted. May cause nausea, vomiting, dizziness and drowsiness.

**Ingestion:** Ethylene Glycol may cause nausea and vomiting. Toxicity follows 3-stage progression: (1) involves central nervous system effecting including paralysis of eye muscles, convulsions, and coma. Metabolic acidosis and cerebral swelling may also occur. (2) involves cardiopulmonary system with symptoms of hypertension, rapid heart beat, and possible cardiac failure. (3) involves severe kidney abnormalities including possible renal failure.

**Skin:** May cause skin irritation. Low hazard for usual industrial handling.

**Eyes:** May cause moderate eye irritation.

**Potential chronic health effects**

**Chronic Exposure:** Repeated small exposures by any route can cause severe kidney problems. Brain damage may also occur. Skin allergy can develop. May damage the developing fetus.

**Aggravation of Pre-Existing Conditions:**

Persons with pre-existing skin disorders, eye problems, or impaired liver, kidney, or respiratory function may be more susceptible to the effects of Ethylene Glycol.

## Section 3 – Composition/Information on Ingredients

<u>Ingredient Name:</u>	<u>CAS number</u>	<u>WT %</u>
Ethylene Glycol	107-21-1	10.0
Magnesium Sulfate	231-298-2	25.0

## Section 4 – First Aid Measures

**Eye contact:** Immediately flush eyes with plenty of water for at least 15 minutes, occasionally lifting the upper and lower eyelids. Get medical attention immediately. Do NOT allow victim to rub or keep eyes closed.

**Skin contact** Flush skin with plenty of soap and water for at least 15 minutes while removing contaminated clothing and shoes. Get medical aid if irritation develops or persists. Wash clothing before reuse.

<b>Inhalation</b>	Remove from exposure to fresh air immediately. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical aid if cough or other symptoms appear.
<b>Ingestion</b>	If victim is conscious and alert, give 2-4 cupfuls of milk or water. Never give anything by mouth to an unconscious person. Get medical aid immediately.
<b>Notes to physician</b>	Effects may be delayed. Ethanol may inhibit methanol metabolism.

### Section 5 – Fire-fighting measures

<b>General Information</b>	Ethanol may inhibit methanol metabolism. As in any fire, wear a self-contained breathing apparatus in pressure-demand, MSHA/NIOSH (approved or equivalent), and full protective gear. Vapours may be heavier than air and can spread along the ground and collect in low or confined areas.
<b><u>Extinguishing media</u></b>	
<b>Suitable</b>	For small fires use dry chemical, CO <sub>2</sub> , water spray, or alcohol resistant foam. For large fires, use water spray, fog or alcohol-resistant foam.
<b>Non-suitable</b>	Do NOT use straight streams of water.

### Section 6 – Accidental Release Measures

<b>General Information</b>	Use proper personal protective equipment as indicated in section 8
<b>Spill/Leaks</b>	Absorb spill with inert material (e.g. vermiculite, sand or earth), then place in suitable container. Remove all sources of ignition. Provide ventilation.

### Section 7 – Handling & Storage

<b>Handling</b>	Wash thoroughly after handling. Remove contaminated clothing and wash before reuse. Use with adequate ventilation. Avoid contact with eyes, skin and clothing. Avoid ingestion and inhalation.
<b>Storage</b>	Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances.

### Section 8 – Exposure Control/Personal Protection

<b><u>Ingredient Name:</u></b>	<b><u>Occupational exposure limits</u></b>		
	<b>AGCIH TLV Ceiling</b>	<b>NIOSH</b>	<b>OSHA PEL STEL (15 mins)</b>
Ethylene Glycol	100 mg/m <sup>3</sup> (aerosol)	no established RELs see appendix D	None Listed
Magnesium Sulfate	None Established	None Established	None Established
<b>OSHA Vacated PELs:</b>	Ethylene Glycol: C 50 ppm; C 125 mg/m <sup>3</sup>		
<b>Engineering</b>	Use adequate general or local exhaust to keep airborne concentrations below the permissible exposure levels		
<b>Personal Protective Equipment</b>			
<b>Eyes</b>	Wear appropriate protective eyeglasses or chemical safety goggles as described by OSHA's eye and face protection regulations in 29 CFR 1910.133 or European Standard EN166.		
<b>Skin</b>	Wear appropriate protective gloves to prevent skin exposure.		
<b>Clothing</b>	Wear appropriate protective clothing to prevent skin exposure.		
<b>Respirators</b>	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN149. Always use a NIOSH or European EN149 approved respirator when necessary.		

### Section 9 – Physical & Chemical Properties

<b>Appearance (physical state, color, etc.)</b>	Clear Liquid
<b>Odor</b>	No Odor
<b>pH</b>	7

<b>Melting point/freezing point</b>	Freezes below 0° C
<b>Boiling point</b>	95.5° C
<b>Flash point</b>	115.5° C (Tag Closed Cup)
<b>Evaporation Rate</b>	<1
<b>Famability (solid/gas)</b>	Combustible liquid
<b>Lower flammable limit</b>	3.2% (vapour in air)
<b>Upper flammable limit</b>	12.8% (vapour in air)
<b>Vapor pressure</b>	10.6 mm Hg
<b>Vapor density</b>	>1 (Air = 1)
<b>Relative density</b>	1.152
<b>Water solubility</b>	Miscible
<b>Partition coefficient: n-octanol/water</b>	No Data
<b>Auto ignition temperature</b>	No Data
<b>Decomposition temperature</b>	No Data
<b>Viscosity</b>	Similar to Water

### Section 10 – Stability & Reactivity

<b>Stability</b>	Stable under normal temperatures and pressures.
<b>Conditions to avoid</b>	High temperatures, sources of ignition, incompatible materials.
<b>Materials to avoid</b>	Oxidizing agents, reducing agents,
<b>Hazardous Decomposition Products</b>	Thermal decomposition may produce carbon monoxide.

### Section 11- Toxicological Information

#### Acute toxicity

#### Ingredient Name:

Ethylene Glycol	LD50 Oral	Rat	4700 mg/kg
	LD50 Skin	Rabbit	9530 mg.kg
	Irritation Skin	Rabbit	555mg(open), mild
	Irritation Eye	Rabbit	500mg/24H, mild

#### Other Toxicological Information

#### Carcinogenicity

#### Ingredient Name

Ethylene Glycol	ACGIH	A4 – Not Classified
	IARC	Not Classified
	NTP	Not Classified
	OSHA	Not Classified
	EU	Not Classified

### Section 12 – Ecological Information

**Environmental effects** No known significant effects or critical hazards. Ethylene Glycol and Methanol are expected to biodegrade in soil and water very rapidly.

#### Aquatic Eco toxicity

#### Ingredient Name

Ethylene Glycol	Fresh water	Acute LC50 8000 mg/L	Rainbow trout, donaldson trout
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Other adverse effects No known significant effects or critical hazards.

## Section 13 – Disposal Considerations

**Waste disposal** Chemical waste generators must determine whether a discarded chemical is classified as a hazardous waste. US EPA guidelines for the classification determination are listed in 40 CFR Parts 261.3. Additionally, waste generators must consult state and local hazardous waste regulations to ensure complete and accurate classification.

**RCRA P-Series:** None listed

## Section 14 – Transportation Information

The data in this section is for information only and may not be specific to your package size or mode of transport. You will need to apply the appropriate regulation to properly classify your shipment.

### International transport regulations

Regulatory Information	UN/NA number	Proper shipping name	Classes/*PG	Reportable Quantity (RQ)
CFR		No Information available		
TDG		No Information available		
IMO/IMDG		No Information available		
IATA(Cargo)		No Information available		

\*PG : Packing group

## Section 15 – Regulatory Information

### US regulations

**TSCA** CAS# 107-21-1 is listed on the TSCA inventory

#### **SARA**

##### **Section 302 (RQ)**

CAS# 107-21-1: final RQ = 5000 pounds (2270 kg)

##### **Section 302 (TPQ)**

None of the chemicals in this product have a TPQ

**SARA Codes:** CAS# 107-21-1: acute, chronic.

##### **SARA 313 – Supplier Notification**

This product contains Ethylene Glycol (CAS# 107-21-1) which is subject to the reporting requirements of Section 313 of SARA Title III and 40 CFR Part 373.

**Clean Air Act:** CAS# 107-21-1 is listed as a hazardous air pollutant (HAP). This product does not contain any Class 1 Ozone depleters. This product does not contain any Class 2 Ozone depleters.

**Clean Water Act:** None of the chemicals in this product are listed as Hazardous Substances under the CWA. None of the chemicals in this product are listed as Priority Pollutants under the CWA. None of the chemicals in this product are listed as Toxic Pollutants under the CWA.

**OSHA:** None of the chemicals in this products are considered highly hazardous by OSHA.

**State regulations** CAS# 107-21-1 can be found on the following state right to know lists: California, New Jersey, Florida, Pennsylvania, Minnesota, Massachusetts.  
California No Significant Risk Level: None of the chemicals in this product are listed.

### Canada

CAS# 107-21-1 is listed on Canada's DSL List. CAS# 127-21-1 has a WHMIS classification of

### European/International Regulations

#### **European Labeling in Accordance with EC Directives**

**Hazard Symbols:** XN **Risk Phrases:** R22 Harmful if swallowed.

**Prepared by**  
**Date of issue**  
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**Version**  
**Notice to reader**

The Embalmers' Supply Company  
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**3**

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