



SAFETY DATA SHEET

Section 1 – Product and Company Identification

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Trade Name: Drug & Stain Remover
Product Type: Supplementary Embalming Chemical

Product Code: 20085

Revision Date: Mar-15

Section 2 – Hazards Identification

Appearance: Clear Liquid **Odor:** Characteristic 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	25.0
Dimethyl Sulfoxide (DMSO)	67-68-5	74.0

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.

Inhalation	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.
Ingestion	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.
Notes to physician	Effects may be delayed. Ethanol may inhibit methanol metabolism.

Section 5 – Fire-fighting measures

General Information	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.
<u>Extinguishing media</u>	
Suitable	For small fires use dry chemical, CO ₂ , water spray, or alcohol resistant foam. For large fires, use water spray, fog or alcohol-resistant foam.
Non-suitable	Do NOT use straight streams of water.

Section 6 – Accidental Release Measures

General Information	Use proper personal protective equipment as indicated in section 8
Spill/Leaks	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

Handling	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.
Storage	Keep away from sources of ignition. Store in a cool, dry, well-ventilated area away from incompatible substances.

Section 8 – Exposure Control/Personal Protection

<u>Ingredient Name:</u>	<u>Occupational exposure limits</u>		
	<u>AGCIH TLV Ceiling</u>	<u>NIOSH</u>	<u>OSHA PEL STEL (15 mins)</u>
Ethylene Glycol	100 mg/m ³ (aerosol)	no established RELs see appendix D	None Listed
Dimethyl Sulfoxide (DMSO)	None Established		None Established
OSHA Vacated PELs:	Ethylene Glycol: C 50 ppm; C 125 mg/m ³		
Engineering	Use adequate general or local exhaust to keep airborne concentrations below the permissible exposure levels		
Personal Protective Equipment			
Eyes	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.		
Skin	Wear appropriate protective gloves to prevent skin exposure.		
Clothing	Wear appropriate protective clothing to prevent skin exposure.		
Respirators	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

Appearance (physical state, color, etc.)	Clear Liquid
Odor	Characteristic Odor
pH	7
Melting point/freezing point	Freezes below 0° C
Boiling point	95.5° C
Flash point	115.5° C (Tag Closed Cup)
Evaporation Rate	<1
Flammability (solid/gas)	Combustible liquid
Lower flammable limit	3.2% (vapour in air)
Upper flammable limit	12.8% (vapour in air)
Vapor pressure	10.6 mm Hg
Vapor density	>1 (Air = 1)
Relative density	1.152
Water solubility	Miscible
Partition coefficient: n-octanol/water	No Data
Auto ignition temperature	No Data
Decomposition temperature	No Data
Viscosity	Similar to Water

Section 10 – Stability & Reactivity

Stability	Stable under normal temperatures and pressures.
Conditions to avoid	High temperatures, sources of ignition, incompatible materials.
Materials to avoid	Oxidizing agents, reducing agents,
Hazardous Decomposition Products	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.

Section 16 – Other Information

Prepared by	The Embalmers' Supply Company
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