



SAFETY DATA SHEET

Section 1 – Product and Company Identification

THE EMBALMERS' SUPPLY COMPANY
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Trade Name: Cadisol Liquid
Product Type: Embalming Chemical
Contains Phenol 19.3%

Product Code: 23025

Revision Date: Mar-15

Section 2 – Hazards Identification

Form: Class II C Flammable Liquid **Odor:** Pungent
OSHA/HCS status: This contains material is considered hazardous by the OSHA Hazard Communication Standard (29 CFR 1910.1200)
DANGER!



Emergency Overview: Toxic if swallowed. Toxic in contact with skin. Causes severe skin burns and eye damage. Fatal if inhaled. Suspected of causing genetic defects. May cause damage to organs through prolonged or repeated exposure.

Potential Health Effects:

Inhalation: Inhalation can result in lung irritation and pulmonary edema. May affect the central nervous system. Symptoms may include dizziness, drowsiness, lethargy, coma and death.

Ingestion: Toxic if swallowed. Ingestion quickly results in burning of the mouth, mouth sores, diarrhea, and marked abdominal pain.

Skin: Phenol is rapidly absorbed through the skin, and can result in severe toxicity including death. Skin exposure results in pain, then numbness, severe burns, and eschar formation.

Eyes: Eye exposure results in pain, then numbness, severe burns, and eschar formation. Contact with the eyes can cause severe corneal injury with permanent blindness.

Potential chronic health effects

Chronic effects: Symptoms of chronic phenol poisoning include vomiting, difficulty in swallowing, diarrhea, lack of appetite, headache, fainting, dizziness, dark urine, and mental disturbances. Major damage to the liver, kidneys, and eyes can occur. Skin rashes and changes in skin pigmentation, especially over the knuckles of the hand, have been noted.

Carcinogenicity: Phenol has been found to induce skin tumors in mice exposed dermally (Cancer Research, Vol. 49, p. 413, 1959). However, this chemical is not considered to be carcinogenic by OSHA, NIOSH, NTP, IARC or EPA. IARC lists phenol in their Group 3 which is a category for substances unclassifiable as to their carcinogenicity.

Mutagenicity: Repeated and prolonged exposure may cause mutagenic effects.

Target organs: Liver, Kidney

By overexposure: Pre-existing respiratory and skin disorders and disorders involving any other target organs mentioned in this MSDS as being at risk may be aggravated by over-exposure to this product.

See section 12 for more detailed information on Ecological effects.

Section 3 – Composition/Information on Ingredients

<u>Ingredient Name:</u>	<u>CAS number</u>	<u>WT %</u>
Phenol	108-95-2	19.3
Methanol (Methyl Alcohol)	67-56-1	19.5

Section 4 – First Aid Measures

Inhalation	Move victim to fresh air. Administer oxygen if breathing is difficult. Give artificial respiration if victim is not breathing. Do not use mouth-to-mouth method if victim inhaled the substance; give artificial respiration with the aid of a pocket mask equipped with a one-way valve or other proper respiratory medical device. Get medical attention immediately.
Skin	Phenol spills on the skin, especially in high concentrations, are immediately life threatening and speed is essential for treatment. Immediately flush with large volumes of water while removing contaminated clothing. Continue to thoroughly wash with water for at least 15 minutes after clothing is removed. For additional treatment, an undiluted solution of polyethylene glycol (PEG) 300 or 400 can be dabbed on the skin. Dispose of all contaminated clothing, avoiding additional skin contact. Get medical attention immediately.
Eye	In case of contact with substance, immediately flush eyes with running water for at least 20 minutes. If eye irritation persists: Get medical advice/attention.
Ingestion	Ingestion is immediately life threatening and speed is essential in treatment. Gastric lavage may be used if performed soon after ingestion. If used, activated charcoal should be administered as a slurry either aqueous or mixed with saline cathartic or sorbitol. Administer one dose of a cathartic, mixed with charcoal or given separately. Get medical attention immediately.
Protection of First aid personnel	No action shall be taken involving any personal risk or without suitable training. It may be dangerous to the person providing aid to give mouth-to-mouth resuscitation. Wash contaminated clothing thoroughly with water before removing it, or wear gloves. If it is suspected that dust, vapour, mist or gas are still present, the rescuer should wear an appropriate mask or self-contained breathing apparatus.
Notes to physician	All treatments should be based on observed signs and symptoms of distress in the patient. Consideration should be given to the possibility that overexposure to materials other than this product may have occurred.

See section 11 for more detailed information on health effects and symptoms.

Section 5 – Fire-fighting measures

Flammability of the product	CII Flammable Liquid
<u>Extinguishing media</u>	
Suitable	SMALL FIRES: Halon replacement, carbon dioxide, water spray or alcohol foam. LARGE FIRES: Water spray, fog or alcohol-resistant foam.
Non-suitable	No data available.
Special exposure hazards	Containers may explode when heated.
Hazardous combustion products	Phenol produces toxic and corrosive gases during combustion.
Special protective equipment for fire-fighters	Fire-fighters should wear appropriate protective equipment and self-contained breathing apparatus (SCBA) with full face-piece operated in positive pressure mode. Firefighters should wear chemical protective clothing that is specifically recommended by the manufacturer.

Section 6 – Accidental Release Measures

Personal precautions	Do not walk through spilled material. Wear appropriate personal protective equipment, avoid direct contact. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Do not breathe mist, vapors, spray. Do not get in eyes, on skin, or on clothing.
Emergency Procedures	As an immediate precautionary measure, isolate spill or leak area. Stay upwind. Keep out of low areas. Keep unauthorized personnel away. Ventilate closed spaces before entering.
Environmental Precautions	Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers. Inform the relevant authorities if the product has caused environmental pollution (sewers, waterways, soil or air).
Spills	Stop leak if you do it without risk. Take up <u>small spills</u> with sand or other non-combustible absorbent material and place into containers for later disposal. <u>Large Spills</u> : Dike far ahead of spill for later disposal.

Section 7 – Handling & Storage

Handling	Handle an open container with care. Keep away from heat and ignition sources. Use caution when combining with water. Use only with adequate ventilation. Wear appropriate personal protective equipment, avoid direct contact. Do not breathe mist, vapors or spray. Do not get in eyes, on skin or on clothing. Take precautionary measures against static charges. All equipment used when handling the product must be grounded. Was thoroughly with soap and water after handling and before eating, drinking, or using tobacco.
Storage	Store in an area protected from direct sunlight in a dry, cool and well-ventilated area, away from incompatible materials (see section 10) and food and drink. Keep container tightly closed and sealed until ready for use. Containers that have been used must be carefully resealed and kept upright to prevent leakage. Do not store in unlabelled containers. Use appropriate containment to avoid environmental contamination.

Section 8 – Exposure Control/Personal Protection

<u>Ingredient Name:</u>	<u>Occupational exposure limits</u>		
Phenol (108-95-2)	AGCIH TLV 5 ppm TWA	OSHA PEL 8-hr TWA 5 ppm; 19mg/m ³	OSHA PEL STEL (15 mins) NA
Methanol (67-56-1)	AGCIH TLV TWA 200 ppm	OSHA PEL 8-hr TWA 200 ppm	OSHA PEL STEL (15 mins) 250 ppm

Consult local authorities for acceptable exposure limits.

Engineering	Good general ventilation should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits.
Hygiene measures	Wash hands, forearms and face thoroughly after handling chemical products, before eating, smoking and using the lavatory and at the end of the working period. Appropriate techniques should be used to remove potentially contaminated clothing. Wash contaminated clothing before reusing. Ensure that eyewash stations and safety showers are close to the workstation location.
Respiratory protection	Follow the OSHA respirator regulations found in 29 CFR 1910.134 or European Standard EN 149. Use a NIOSH or European Standard EN 149 approved respirator if exposure limits are exceeded or symptoms are experienced.

Skin/Body	Wear appropriate gloves. Wear long sleeves and/or protective coveralls.
Eye protection	Wear chemical splash safety goggles (for example meeting standard BS EN166 3), when handling this product.
Environmental exposure Controls	Controls should be engineered to prevent release to the environment, including procedures to prevent spills, atmospheric release and release to waterways. Follow best practice for site management and disposal of waste.

Section 9 – Physical & Chemical Properties

Appearance (physical state, color, etc.)	Yellow liquid
Odor	characteristically sweet odor
pH	<7
Melting point/freezing point	freezes below 0° C
Boiling point	63° C - 66° C
Flash point	57.2° C
Evaporation Rate	>1
Flammability (solid/gas)	C II Flammable liquid
Lower flammable limit	2.7%
Upper flammable limit	28.6%
Vapor pressure (mm Hg)	22.0
Vapor density	1.06
Relative density	1.03
Water solubility	Soluble
Partition coefficient: n-octanol/water	<1
Auto ignition temperature	715° C (1319° F)
Decomposition temperature	NA
Viscosity	>1

Section 10 – Stability & Reactivity

Stability	No dangerous reaction known under conditions of normal use.
Conditions to avoid	Avoid excess heat.
Materials to avoid	Strong oxidizers, acid chlorides and acid anhydrides, halogens, especially calcium hypochlorite – contact with it may cause fires and explosions. Hot phenol attacks copper, aluminium magnesium lead, and zinc.
Hazardous Decomposition Products	Decomposition products may include the following materials: carbon monoxide, irritation aldehydes, ketones and unidentified organic compounds may be formed during combustion.

Section 11- Toxicological Information

Acute toxicity

Ingredient Name:

Phenol	LD50 Inhalation	Rat	110 mg/m ³
Methanol	LDLo Oral	Human	143 mg/kg
	LdLo Dermal	Monkey	393 mg/kg

Other Toxicological Information

Phenol

OSHA HCS 2012 – Acute Toxicity- Dermal 3; Acute Toxicity – Inhalation 1; Acute Toxicity – Oral 4

Carcinogenicity

Ingredient Name

Methanol	ACGIH	Not Classified
	IARC	Not Classified
	NTP	Not Classified
	OSHA	Not Classified
	EU	Not Classified
Phenol	ACGIH	Not Classified
	IARC	Not Classified
	OSHA	Classification Criteria Not Met
	EU	Classification Criteria Not Met

Section 12 – Ecological Information

Environmental effects No known significant effects or critical hazards.

Aquatic Eco toxicity

Ingredient Name

Methanol	Fresh Water	Acute EC 50 13,000 ,g/l/4/d	Rainbow trout, donadson trout
Phenol	Fresh Water	Acute LC50 1.5 mg/L	Carp, Hawk Fish
Other adverse effects	No known significant effects or critical hazards.		

Section 13 – Disposal Considerations

Waste disposal The generation of waste should be avoided or minimized wherever possible. Disposal of surplus and non-recyclable products via a licensed waste disposal contractor. Disposal of this product, solutions and any by-products should at all times comply with the requirements of environmental protection and waste disposal legislation and any regional local authority requirements. Avoid dispersal of spilled material and runoff and contact with soil, waterways, drains and sewers.

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	2821	Phenol Solution; (flammable)	Class 6.1/III	Phenol, Methanol
TDG	2821	Phenol Solution; (flammable)	Class 6.1/III	Phenol, Methanol
IMO/MDG	2821	Phenol Solution; (flammable)	Class 6.1/III	Phenol, Methanol
IATA(Cargo)	2821	Phenol Solution; (flammable)	Class 6.1/III	Phenol, Methanol

*PG : Packing group

Section 15 – Regulatory Information

US regulations

HCS Classification
U.S. Federal regulations

Acute, Chronic
SARA 311/312 Classification Immediate (acute) health hazard, Delayed (chronic) health hazard, reactive, Fire hazard.

SARA 313 – Supplier Notification

This product contains the following toxic chemical(s) subject to the reporting requirements of Section 313 of the Title III of the Superfund Amendments and Reauthorization Act of 1986, and Subpart C-Supplier Notification Requirement of 40 CFR Part 372.

Methanol – 67-56-1 23.9%, Phenol – 108-95-2

SARA 302 Extremely Hazardous Substances. The following components are listed:
Phenol

State regulations
Massachusetts RTK Substances. The following components are listed: Methanol
New Jersey RTK Hazardous Substances The following components are listed:
Methanol
Pennsylvania RTK Hazardous Substances The following components are listed:
Methanol

Canada

WHMIS (Canada)
Classification of Substances: Phenol 108-95-2 D1A, E
Ingredient Disclosure List: Phenol 108-95-2 1%
Accerated Reduction/Elimination of Toxics (ARET): Phenol 108-95-2 B-3

International regulations

Chemical Inventories
Australia inventory (AICS), All components are listed or exempted
Canada inventory, All components are listed or exempted
Europe inventory, All components are listed or exempted
Japan inventory, All components are listed or exempted
China inventory (IECSC) All components are listed or exempted
Korea inventory, All components are listed or exempted
New Zealand inventory (NZIoC), Not determined
Philippines inventory, All components are listed or exempted
United States inventory, (TSCA 8b), All components are listed or exempted

Section 16 – Other Information

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