SAFETY DATA SHEET

Section 1 – Product and Company Identification

THE EMBALMERS' SUPPLY COMPANY
5 Colton Road
East Lyme, CT 06333

INFORMATION: 860-739-4200
EMERGENCY PHONE (24hr) CHEMTREC: 800-424-9300
www.embalmers.com – info@embalmers.com

Trade Name: Bruise Bleach
Product Type: Embalming Chemical
Contains Pheol 3.6% & Formaldehyde 25 %

Product Code: 20037

Revision Date: Mar-15

Section 2 – Hazards Identification

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

Emergency Overview: Toxic if inhaled. Toxic in contact with skin and if swallowed. Causes digestive tract and eye burns. Inhalation causes dizziness, drowsiness and nausea and may lead to unconsciousness. Causes Skin irritation. May cause allergic respiratory and skin reaction. May cause respiratory tract irritation.

Potential Health Effects:

Inhalation: Toxic if inhaled. Can cause central nervous system (CNS) depression. Irritation to the respiratory system. Overexposure may cause pulmonary oedema. May cause sensitization by inhalation. Reports have associated repeated and prolonged occupational overexposure to solvents with permanent brain and nervous system damage.

Ingestion: Toxic if swallowed. May cause burns to mucous membranes, throat and stomach. Toxic/systemic effects may cause, nausea, muscular weakness, shock or collapse. May be fatal or cause blindness if swallowed.

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. May cause sensitization by skin contact.

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

Potential chronic health effects

Chronic effects: Contains material that can cause target organ damage. Some reports suggest that formaldehyde may cause respiratory sensitization, such as asthma, and that pre-existing respiratory and skin disorders may be aggravated by exposure. May be fatal or cause blindness if swallowed.

Carcinogenicity: Contains (formaldehyde) which can cause cancer. Risk of cancer depends on duration and level of exposure.

Mutagenicity: Repeated and prolonged exposure may cause mutagenic effects.

Target organs: Liver, Kidney

Fertility effects: Contains (formaldehyde) which may impair female fertility, based on animal data.

Overexposure: Pre-existing respiratory and skin disorders and disorders involving any other target organs mentions 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

Ingredient Name:	CAS number	WT %
Methanol (Methyl Alcohol)	67-56-1	24.4
Phenol	108-95-2	3.6
Formaldehyde	50-00-0	25.0
Acetic Acid	64-19-7	4.0

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 Flammable Liquid

Extinguishing media

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 small spills with sand or other non-combustible absorbent material and place into containers for later disposal. Large Spills: 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

Ingredient Name:	**Occupational exposure limits**		
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
Formaldehyde (50-00-0)	**AGCIH TLV Ceiling** 0.75 ppm	**OSHA PEL 8-hr TWA** 0.37mg/m^3: 0.3 ppm	**OSHA PEL STEL (15 mins)** 2 ppm
Acetic Acid (64-19-7)	**AGCIH TLV Ceiling** 10 ppm	**OSHA PEL 8-hr TWA** 10 ppm	**OSHA PEL STEL (15 mins)** NA

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.
Monitoring	Contains ingredients with exposure limits. Workplace atmosphere or biological monitoring may be required to determine the effectiveness of the ventilation or other control measures, and/or the necessity to use respiratory protective equipment.
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.)	Clear liquid
Odor	pungent odor
pH	<7
Melting point/freezing point	freezes below 0^{o} C
Boiling point	83.3 ^{o} C
Flash point	20 C
Evaporation Rate	>1
Flammability (solid/gas)	Flammable liquid
Lower flammable limit	7.0%
Upper flammable limit	73.0%
Vapor pressure (mm Hg)	92.0
Vapor density	>1
Relative density	>1
Water solubility	Soluble
Partition coefficient: n-octanol/water	<1
Auto ignition temperature	715^{o} C (1319^{o} 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	Decomposition products may include the following materials: carbon monoxide, irritation aldehydes, ketones and unidentified organic compounds may be formed during

Products 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
Formaldehyde	LD50 Orral	Rat	800 mg/kg
	LD50 Inhalation	Rat	0.0578 mg/l 250 ppm/2h
	LD50 Dermal	Rabbit	270 mg/kg

Other Toxicological Information

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

Carcinogenicity

Conclusion/Summary: The National Toxicology Program (NTP) has listed formaldehyde as "reasonably anticipated to be a human carcinogen". The International Agency for Research on Cancer (IARC) has concluded that formaldehyde is "carcinogenic to humans". U.S. OSHA regulates formaldehyde as a potential human carcinogen. (See 29 CFR 1920.1048) Safe handling and use instructions are provided in this SDS and in the OSHA standard. OSHA has identified 0.5 ppm, calculated as an eight hour time weighted average (TWA) concentration as the "Action Level". Please review and understand the guidance contained in this SDS, and refer to the OSHA Standard for regulatory requirements that might be applicable to your operation and use.

Ingredient Name

Formaldehyde	ACGIH	Suspected human carcinogen
	IARC	IARC Group 1, carcinogenic to humans
	NTP	Possible
	OSHA	Cancer potential
	EU	Limited evidence of a carcinogenic effect
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

Formaldehyde	Fresh Water	Acute LC 50 1.41 mg/l/4 d	Rainbow trout, Donaldson trout
		Acute LC 50 1.51 mg/l/4 d	Bluegill
Methanol	Fresh Water	Acute EC 50 13,000 ,g/l/4/d	Rainbow trout, Donaldson 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, Formaldehyde Methanol
TDG	2821	Phenol Solution; (flammable)	Class 6.1/III	Phenol, Formaldehyde Methanol
IMO/IMDG	2821	Phenol Solution; (flammable)	Class 6.1/III	Phenol, Formaldehyde Methanol
IATA(Cargo)	2821	Phenol Solution; (flammable)	Class 6.1/III	Phenol, Formaldehyde Methanol

*PG : Packing group

Section 15 – Regulatory Information

US regulations

HCS Classification Acute, Chronic

U.S. Federal regulations

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.
Formaldehyde – 50-00-0, Methanol – 67-56-1 23.9%, Phenol – 108-95-2

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

State regulations

Massachusetts RTK Substances. The following components are listed: Methanol

New Jersey RTK Hazardous Substances The following components are listed: Formaldehyde, Methanol

Pennsylvania RTK Hazardous Substances The following components are listed: Formaldehyde, Methanol

California Prop. 65: Warning: This product contains a chemical(s) known to the State of California to cause cancer; Formaldehyde – 50-00-0

Canada

WHMIS (Canada) Class B-3: Combustible liquid with a flash point between 37.8 C (100 F) and 93.3 C (200 F).
Class D-1A: Material causing immediate and serious toxic effects. (Very Toxic).
Class D-2A: Material causing other toxic effects (very toxic).
Class D-2B: Material causing other toxic effects (toxic).
Class E: Corrosive.

	Canada NPRI: Listed chemicals: Methanol, Formaldehyde, Phenol			
WHIMS (Canada)	**Classification of Substances:**	Phenol	108-95-2	D1A, E
	Ingredient Disclosure List:	Phenol	108-95-2	1%
	Accelerated 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

Prepared by The Embalmers' Supply Company
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