Section 1: Identification

Product Name: Chlora-San® (16oz)
Product Code: PW0418500
Recommended Use: Effective in helping to inhibit tissue gas. Apply on surface abrasions, burned areas and cancers.
Restrictions on Use: Professional embalmer use only; not for general consumer use.
Manufacturer: TNPC, LLC – Dallas, TX 75236
Distributed by: Pierce Companies – 4722 Bronze Way – Dallas, TX 75236 – (214) 333-4230
Emergency Phone Number: CHEMTREC – (800) 424-9300

Section 2: Hazard(s) Identification

GHS Classification:

- Flammable Liquids, Category 3
- Acute Toxicity (Oral), Category 4
- Eye Damage, Category 1
- Skin Sensitization, Category 1
- Respiratory Sensitization, Category 1
- Germ Cell Mutagenicity, Category 2
- Carcinogenicity, Category 1B
- Reproductive Toxicity, Category 1B
- Specific Target Organ Toxicity - Single Exposure, Category 2

Signal Word: **DANGER**
Hazard Statements:

- H226: Flammable liquid and vapor.
- H302: Harmful if swallowed.
- H317: May cause an allergic skin reaction.
- H318: Causes serious eye damage.
- H334: May cause allergy or asthma symptoms or breathing difficulties if inhaled.
- H341: Suspected of causing genetic defects.
- H350: May cause cancer.
- H360: May damage fertility or the unborn child.
- H371: May cause damage to organs.

Precautionary Statements:

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P210: Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.
- P233: Keep container tightly closed.
- P240: Ground and bond container and receiving equipment.
- P241: Use explosion-proof electrical, ventilating, and lighting equipment.
- P242: Use non-sparking tools.
- P243: Take action to prevent static discharges.
- P260: Do not breathe vapors.
- P261: Avoid breathing vapors.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P272: Contaminated work clothing should not be allowed out of the workplace.
- P280: Wear protective gloves, protective clothing, eye protection, and face protection.
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P330: Rinse mouth.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P310: Immediately call a POISON CENTER or doctor.

- P342+P311: If experiencing respiratory symptoms: Call a POISON CENTER or doctor.
- P333+P313: If skin irritation or rash occurs: Get medical advice or attention.
- P370+P378: In case of fire: Use dry chemical, foam, or carbon dioxide to extinguish.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents/container in accordance with local, regional, national, and international regulations.

Pictograms:

Section 3: Composition/Information on Ingredients

CHEMICAL NAME	CAS NUMBER	% WEIGHT	CLASSIFICATION	
Perchloroethylene	127-18-4	47-57%	Carc 2; STOT RE 2	Trade Secret Information: Exact % of concentration is withheld to protect Trade Secret Information. Ranges are given in accordance with 29 CFR 1910.1200(i), Appendix E
Isopropyl Alcohol Tech 99%	67-63-0	20-30%	Flam Liq 2; Eye Irrit 2; STOT SE 3	
DL-Camphor	76-22-2	2-12%	Flam Sol 2; Acute Tox 4 (O)	
Acetone	67-64-1	1-11%	Flam Liq 2; Eye Irrit 2; STOT SE 3	
Formaldehyde	50-00-0	<5%	Acute Tox 3; Skin Corr 1B; Eye Dam 1; Skin Sens 1; Resp Sens 1; Muta 2; Carc 1B	
Phenol 90%	108-95-2	<5%	Acute Tox 3; Skin Corr 1B; Muta 2	
Thymol Crystals NF	89-83-8	<5%	Skin Irrit 2; Eye Irrit 2	
Methanol	67-56-1	<5%	Flam Liq 2; Acute Tox 3; Repr 1B; STOT SE 1	
Other non-hazardous components	—	<5%	not classified under GHS	

Section 4: First-Aid Measures

- **Inhalation:** Move to fresh air. Keep at rest. Get medical attention if symptoms occur.
- **Skin/Eye Contact:** For skin, wash with soap and water. For eyes, rinse with water for at least 15 minutes. Remove contact lenses if easy to do. Get medical attention.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Get medical attention immediately.
- **Symptoms/Effects:** May cause eye damage, skin irritation, breathing irritation, headache, dizziness, nausea, and sensitization.
- **Physician Notes:** Treat symptomatically. Monitor for effects from formaldehyde, phenol, and solvent exposure.

Section 5: Fire-fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, foam, carbon dioxide, or water fog.
- **Unsuitable Extinguishing Media:** Do not use a direct water stream.
- **Special Hazards Arising from the Chemical:** Flammable liquid and vapor. Heating may produce irritating or toxic fumes.
- **Advice for Firefighters:** Wear self-contained breathing apparatus and protective clothing. Cool exposed containers with water spray.

Section 6: Accidental Release Measures

- **Personal Precautions:** Eliminate ignition sources. Avoid breathing vapors. Avoid contact with skin and eyes. Wear protective equipment.
- **Emergency Procedures:** Ventilate area. Keep unnecessary personnel away.
- **Methods and Materials for Containment:** Stop leak if safe to do so. Absorb with sand or other inert material. Prevent entry into drains and waterways.
- **Cleanup Procedures:** Collect material into suitable containers for disposal. Clean residue while minimizing vapor release.

Section 7: Handling and Storage

- **Safe Handling:** Avoid breathing vapors. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Keep away from heat, sparks, flames, and hot surfaces. No smoking.
- **Hygiene Measures:** Do not eat, drink, or smoke when using this product. Wash hands after handling. Wash contaminated clothing before reuse.
- **Safe Storage:** Store tightly closed in a cool, dry, well-ventilated area. Keep away from heat, ignition sources, and incompatible materials.
- **Incompatibilities:** Strong oxidizers, strong acids, and strong bases.

Section 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Use adequate general ventilation. Use local exhaust if vapors or mists are generated or if ventilation is insufficient.
- **Personal Protective Equipment (PPE)**:
  - **Gloves**: Wear chemical-resistant gloves.
  - **Eye/Face Protection:** Wear safety glasses or chemical splash goggles.
  - **Respiratory Protection:** Not normally required under normal conditions with adequate ventilation. If vapor or mist exposure is possible or ventilation is inadequate, use appropriate respiratory protection.
  - **Skin/Body:** Wear protective clothing as needed to prevent repeated or prolonged skin contact.
- **Exposure Limits Table:**

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Perchloroethylene (127-18-4)	100 ppm TWA; 200 ppm ceiling; 300 ppm peak	25 ppm TWA; 100 ppm STEL	100 ppm TWA; 200 ppm ceiling
Acetone (67-64-1)	1000 ppm TWA	250 ppm TWA; 500 ppm STEL	250 ppm TWA
Formaldehyde (50-00-0)	0.75 ppm TWA; 2 ppm STEL	0.1 ppm ceiling	0.016 ppm TWA; 0.1 ppm ceiling
Methanol (67-56-1)	200 ppm (260 mg/m³) TWA	200 ppm TWA; 250 ppm STEL	200 ppm (260 mg/m³) TWA; 250 ppm (325 mg/m³) STEL
Isopropyl Alcohol (67-63-0)	400 ppm TWA	200 ppm TWA; 400 ppm STEL	400 ppm TWA; 500 ppm STEL
Phenol (108-95-2)	5 ppm (19 mg/m³) TWA	5 ppm TWA	5 ppm (19 mg/m³) TWA

Section 9: Physical and Chemical Properties

- **Appearance:** Liquid; Clear colorless solution.
- **Odor:** Eucalyptus/solvent odor.
- **Odor Threshold:** Detectable at low vapor concentration.
- **pH:** 3.44.
- **Melting Point/Freezing Point:** Below 32°F; no sharp freezing point.
- **Initial Boiling Point/Boiling Range:** 180°F.
- **Flash Point:** 78°F.
- **Evaporation Rate:** >1.
- **Flammability:** Flammable liquid.
- **Upper/Lower Flammability or Explosive Limits:** LEL: 0.6%; UEL: 73%.
- **Vapor Pressure:** 216 mm Hg @ 117°F.
- **Vapor Density:** 2.00; heavier than air.
- **Relative Density/Specific Gravity:** 1.109 g/mL.
- **Solubility(ies):** Insoluble to slightly soluble in water; may separate.
- **Partition Coefficient: n-octanol/water:** Hydrophobic; chlorinated solvent phase dominates.
- **Auto-ignition Temperature:** ~750°F, driven by alcohol/solvent content.
- **Decomposition Temperature:** May decompose under high heat or fire.
- **Viscosity:** Low; thin solvent liquid.

Section 10: Stability and Reactivity

- **Reactivity:** Highly flammable liquid and vapor.
- **Chemical Stability:** Stable under normal conditions.
- **Hazardous Reactions:** Hazardous Polymerization will not occur. No dangerous reactions are expected under normal conditions.

- **Conditions to be Avoided:** Heat, sparks, open flame, hot surfaces, and other ignition sources.
- **Incompatible Materials:** Strong oxidizers. Strong acids. Strong bases.
- **Hazardous Decomposition:** Thermal decomposition may produce carbon oxides, hydrogen chloride, and irritating organic fumes.

Section 11: Toxicological Information

- **Likely Routes of Exposure:** Inhalation, skin contact, eye contact, and ingestion.
- **Chronic Effects:** Repeated exposure may cause respiratory effects, sensitization, organ effects, and carcinogenic risk.
- **Acute Toxicity (LD50 & LC50):**
    - **Perchloroethylene:** Oral LD50 (rat) approximately 2,629 mg/kg; Inhalation LC50 (mouse, 4 hr) approximately 5,200 ppm. Harmful if inhaled or swallowed.
    - **Acetone:** Oral LD50 (rat) approximately 5,800 mg/kg; Inhalation LC50 (rat, 4 hr) approximately 32,000 ppm. Causes eye irritation and may cause CNS effects.
    - **Formaldehyde:** Oral LD50 (rat) approximately 600 to 800 mg/kg; Inhalation LC50 (rat, 4 hr) approximately 480 ppm. Toxic and corrosive. May cause sensitization.
    - **Methanol:** Oral LD50 (rat) approximately 5,628 mg/kg; Inhalation LC50 (rat, 4 hr) approximately 64,000 ppm. Toxic by ingestion, skin absorption, or inhalation. May cause organ damage.
    - **Isopropyl Alcohol:** Oral LD50 (rat) approximately 5,045 mg/kg; Inhalation LC50 (rat, 8 hr) approximately 16,000 ppm. Harmful if swallowed.
    - **Phenol:** Oral LD50 (rat) approximately 317 mg/kg; Inhalation LC50 (rat, 4 hr) approximately 316 mg/m3. Toxic and corrosive.
    - **DL-Camphor:** Oral LD50 (rat or mouse) approximately 1,310 mg/kg. Harmful if swallowed.
    - **Thymol:** Oral LD50 (rat) approximately 980 mg/kg. Harmful if swallowed.
- **Symptoms/Effect:** Eye damage, skin irritation, breathing irritation, headache, dizziness, nausea, sensitization, and CNS effects.
- **Regulatory Listings:**
    - **NTP:** Formaldehyde is listed as known to be a human carcinogen.
    - **IARC:** Formaldehyde and perchloroethylene are classified as carcinogenic to humans.
    - **OSHA:** Formaldehyde is regulated as a carcinogen.

Section 12: Ecological Information

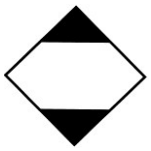
- **Ecotoxicity:** Harmful to aquatic life. Avoid release to drains, soil, and waterways. This is supported by the solvent and phenolic ingredients in the mixture.
- **Persistence/Degradability:** Acetone, isopropyl alcohol, methanol, and formaldehyde biodegrade relatively quickly. Perchloroethylene degrades more slowly.
- **Bioaccumulation Potential:**
    - **Perchloroethylene:** log Kow approximately 3.40; BCF approximately 46 to 81.
    - **Formaldehyde:** log Kow approximately 0.35; BCF approximately 1 to 3.16.
    - **Methanol:** log Kow approximately -0.77; BCF approximately 1.
    - **Acetone:** log Kow approximately -0.24; BCF approximately 0.12 to 3.
    - **Isopropyl Alcohol:** log Kow approximately 0.05; BCF is low.
    - **Phenol:** log Kow approximately 1.11 to 1.46; BCF approximately 1.2 to 2.3.
    - **DL-Camphor:** log Kow approximately 2.38; BCF approximately 17.
- **Mobility in Soil:** Solvent components may move through soil and water. Perchloroethylene may migrate in subsurface environments.
- **Other Adverse Effects:** Large releases may contaminate soil, groundwater, and surface water.

Section 13: Disposal Considerations

- Dispose of in accordance with federal, state, and local regulations.
- Empty containers must not be reused or recycled. Dispose of bottles and residual product in accordance with regulations.
- **Recommended Methods:** Incineration or chemical waste landfill.

Section 14: Transport Information

DOT (Ground Transport): Not regulated
Notes: Limited Quantity: YES (Permitted for small packaging)
Labels: Limited Quantity



IMDG (Ocean Transport):
UN#: UN1993
UN Proper Shipping Name: Flammable liquid, n.o.s. (Methanol, Formaldehyde)
Transport Hazard Classes: 3
Packing Group Number: III
Environmental Hazards: Marine Pollutant: No
Notes: Limited Quantity: YES (Permitted for small packaging)
Labels: Limited Quantity; Flammable Liquid (Class 3)

IATA (Air Transport):
UN#: UN1993
UN Proper Shipping Name: Flammable liquid, n.o.s. (Methanol, Formaldehyde)
Transport Hazard Classes: 3
Packing Group Number: III
Environmental Hazards: Marine Pollutant: No
Notes: Limited Quantity: YES (Permitted for small packaging)
Labels: Limited Quantity; Flammable Liquid (Class 3)

Section 15: Regulatory Information

TSCA List: Chemical substances are subject to TSCA inventory requirements for commercial use.
EPCRA - Emergency Planning & Community Right-to-Know: Formaldehyde and methanol are subject to EPCRA Section 313 reporting. Perchloroethylene is also listed in EPA's consolidated chemical list framework relevant to CERCLA and other federal reporting programs.
CERCLA Reportable Quantity: Formaldehyde has a reportable quantity of 100 lb. Methanol has a reportable quantity of 5,000 lb. Perchloroethylene has a reportable quantity of 100 lb.
SARA 302: Formaldehyde, methanol, and perchloroethylene are not listed as Extremely Hazardous Substances in EPA's current consolidated list.
SARA 304 Extremely Hazardous Substances Reportable Quantity: Not applicable.
SARA 311/312: Fire hazard; acute health hazard; chronic health hazard.
SARA 313: Formaldehyde and methanol are subject to SARA Section 313 reporting.
California Prop 65: Contains formaldehyde, tetrachloroethylene (perchloroethylene), and methanol, chemicals listed under Proposition 65 for cancer and/or developmental toxicity.
US State Regulations: Formaldehyde, methanol, phenol, and perchloroethylene are commonly listed under state right-to-know programs including Massachusetts, New Jersey, and Pennsylvania.
Other Regulations: Follow applicable federal, state, and local regulations for storage, handling, transport, and disposal.

Section 16: Other Information

Regulatory Compliance Verification:
This Safety Data Sheet has been prepared in accordance with and verified for compliance with:

- OSHA Hazard Communication Standard (29 CFR 1910.1200, HazCom 2023)
- Globally Harmonized System (GHS) Revision 11
- U.S. TSCA, EPCRA, CERCLA
- California Proposition 65
- Canadian WHMIS 2022 (GHS-aligned)
- EU REACH Regulation

All hazard classifications, labeling elements, and regulatory disclosures are based solely on the specific formula composition and chemical properties provided for this product.

Hazardous Material Information System III (USA)	
Health:	3
Flammability:	2
Physical Hazards:	0
Personal Protection:	J

National Fire Protection Association (USA)	
Health:	3
Flammability:	2
Instability:	0
Special:	-

HMIS ratings are based on a 0-4 scale, with 0 representing minimal hazards or risks, and 4 representing significant hazards or risks. Although HMIS ratings are not required on Safety Data Sheets under 29 CFT 1910.1200, the preparer may choose to provide them. HMIS ratings are to be used with a fully implemented HMIS program. HMIS is a registered mark of the National Paint & Coatings Association (NPCA).

Prepared by:	**Pierce Companies Regulatory Department**
Date of Preparation/Revision:	**March 01, 2026**
Supersedes:	**July 01, 2024**

Notice: *The information in this SDS is believed to be accurate and reliable at the time of preparation, but no guarantee is made that it is complete or that the hazards listed are the only hazards present. Users are responsible for determining the suitability of the product for their intended use, complying with all applicable laws and safety requirements, and considering the effects of use with other materials. Pierce makes no express or implied warranty regarding the product, its merchantability, fitness for a particular purpose, or the accuracy of this information, except that the product will conform to Pierce's specifications. Possession of this SDS does not indicate that the holder purchased or used the product.*