

Section 1: Identification

Product Name: Royal 33

Product Code: PW0103510

Recommended Use: Cavity Embalming Fluid – Non-Emulsion // 33 index cavity fluid. A strong, powerful cavity fluid. Ultramodern surface tension reducers yield superior penetration and preservation. Acid triple-base formula design with phenolic derivatives.

Broad Spectrum microbial additives

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 Liquid — Category 3
- Acute Toxicity (Oral) — Category 4
- Acute Toxicity (Dermal) — Category 4
- Acute Toxicity (Inhalation) — Category 4
- Skin Corrosion — Category 1B
- Serious Eye Damage — Category 1
- Skin Sensitization — Category 1
- Germ Cell Mutagenicity — Category 2
- Carcinogenicity — Category 1B
- Specific Target Organ Toxicity (Single Exposure) — Category 1
- Specific Target Organ Toxicity (Single Exposure) — Category 3 (Respiratory irritation)

Signal Word: **DANGER**

Hazard Statements:

- H226: Flammable liquid and vapor.
- H302: Harmful if swallowed.
- H312: Harmful in contact with skin.
- H332: Harmful if inhaled.
- H314: Causes severe skin burns and eye damage.
- H317: May cause an allergic skin reaction.
- H335: May cause respiratory irritation.
- H341: Suspected of causing genetic defects.
- H350: May cause cancer.
- H370: Causes 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 mist, vapors, or spray.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink, or smoke when using this product.
- P271: Use only outdoors or in a well-ventilated area.
- P272: Contaminated work clothing must 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.
- P302+P352: IF ON SKIN: Wash with plenty of water.
- P303+P361+P353: IF ON SKIN (or hair): Take off immediately all contaminated clothing. Rinse skin with water.
- P304+P340: IF INHALED: Remove person to fresh air and keep comfortable for breathing.
- 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.
- P333+P313: If skin irritation or rash occurs: Get medical advice or attention.
- P363: Wash contaminated clothing before reuse.
- P370+P378: In case of fire: Use dry chemical, alcohol-resistant foam, or carbon dioxide to extinguish.
- P403+P233: Store in a well-ventilated place. Keep container tightly closed.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P405: Store locked up.
- P501: Dispose of contents and container in accordance with regulations.

Pictograms:



Section 3: Composition/Information on Ingredients

CHEMICAL NAME	CAS NUMBER	% WEIGHT	CLASSIFICATION	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
Formaldehyde	50-00-0	23-33%	Flam. Liq. 3; Acute Tox. 4 (O/Inh); Skin Corr. 1B; Eye Dam. 1; Skin Sens. 1; Muta. 2; Carc. 1B; STOT SE 3	
Methanol	67-56-1	36-46%	Flam. Liq. 2; Acute Tox. 3 (O/D/Inh); STOT SE 1	
Other non-hazardous components	—	25-35%	not classified under GHS	

Section 4: First-Aid Measures

- **Inhalation:** Move to fresh air immediately. Keep at rest. Get medical attention if symptoms occur or persist.
- **Skin/Eye Contact:** Remove contaminated clothing. Rinse skin and eyes with plenty of water immediately. Get medical attention immediately for burns, eye exposure, or persistent irritation.
- **Ingestion:** Rinse mouth. Do not induce vomiting. Call a poison center or doctor immediately.
- **Symptoms/Effects:** Harmful if swallowed or inhaled. Causes severe skin burns and eye damage. May cause allergic skin reaction. May cause respiratory irritation. May affect organs.
- **Physician Notes:** Treat symptomatically. Monitor for corrosive injury, respiratory effects, and systemic toxicity.

Section 5: Fire-fighting Measures

- **Suitable Extinguishing Media:** Dry chemical, alcohol-resistant foam, or carbon dioxide.
- **Unsuitable Extinguishing Media:** Do not use a direct water stream.
- **Specific Hazards:** Flammable liquid and vapor. Heating may produce toxic or irritating fumes.
- **Special Protective Equipment & Precautions for Firefighters:** Wear self-contained breathing apparatus and full protective gear. Cool exposed containers with water spray.

Section 6: Accidental Release Measures

- **Personal Precautions:** Avoid breathing vapors. Avoid contact with skin, eyes, and clothing. Remove ignition sources. Wear proper PPE.
- **Emergency Procedures:** Ventilate area. Isolate spill. Keep unnecessary personnel away.
- **Methods and Materials for Containment:** Contain with sand, earth, or other inert absorbent. Prevent entry into drains or waterways.
- **Cleanup Procedures:** Absorb spill, place in proper container, and dispose of in accordance with regulations. Wash spill area after cleanup.

Section 7: Handling and Storage

- **Safe Handling:** Avoid breathing vapors, mist, or spray. Avoid contact with skin, eyes, and clothing. Use only with adequate ventilation. Keep away from heat, sparks, and open flame.
- **Hygiene Measures:** Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Remove contaminated clothing and wash before reuse.
- **Safe Storage:** Store in a cool, well-ventilated area. Keep container tightly closed. Store locked up.
- **Incompatibilities:** Strong oxidizers, strong acids, strong bases, and ignition sources.

Section 8: Exposure Controls/Personal Protection

- **Engineering Controls:** Use local exhaust or general ventilation to keep vapor levels below exposure limits. Emergency eyewash and safety shower should be available.
- **Personal Protective Equipment (PPE):**
 - **Gloves:** Chemical-resistant gloves.
 - **Eye/Face Protection:** Safety goggles and face shield.
 - **Respiratory Protection:** Use NIOSH-approved respiratory protection if ventilation is inadequate.
 - **Skin/Body:** Chemical-resistant protective clothing.
- **Exposure Limits Table:**

Component	OSHA PEL	ACGIH TLV	NIOSH REL
Formaldehyde (50-00-0)	0.75 ppm TWA; 2 ppm STEL	0.1 ppm TWA; 0.3 ppm STEL	0.016 ppm TWA; 0.1 ppm ceiling
Methanol (67-56-1)	200 ppm TWA	200 ppm TWA; 250 ppm STEL	200 ppm TWA; 250 ppm STEL

Section 9: Physical and Chemical Properties

- **Appearance (physical state, color, etc.):** Liquid; Clear Purple solution
- **Odor:** Pungent
- **Odor Threshold:** Low ppm range
- **pH:** 8.06
- **Melting Point/Freezing Point:** Below 32°F
- **Initial Boiling Point/Boiling Range:** 192°F
- **Flash Point:** 131°F
- **Evaporation Rate:** <1
- **Flammability (solid, gas):** Not applicable
- **Upper/Lower Flammability or Explosive Limits:** LEL 6%; UEL 73%
- **Vapor Pressure:** 74 mm Hg @ 73°F
- **Vapor Density:** 1.10
- **Relative Density/Specific Gravity:** 1.14 g/mL
- **Solubility(ies):** Soluble
- **Partition Coefficient (n-octanol/water):** Not determined for mixture
- **Auto-ignition Temperature:** Elevated; expected above 700°F
- **Decomposition Temperature:** Decomposes gradually with heat
- **Viscosity:** Low viscosity liquid

Section 10: Stability and Reactivity

- **Reactivity:** Reacts with strong oxidizers, strong acids, and strong bases.
- **Chemical Stability:** Stable under normal storage and handling conditions. Heat or contamination may increase vapor release and decomposition.
- **Hazardous Reactions:** Hazardous polymerization is not expected under normal conditions.
- **Conditions to be Avoided:** Heat, sparks, open flame, hot surfaces, and incompatible materials.
- **Incompatible Materials:** Strong oxidizers, strong acids, and strong bases.
- **Hazardous Decomposition:** Carbon monoxide, carbon dioxide, formaldehyde, and other irritating or toxic fumes may form during heating or fire.

Section 11: Toxicological Information

- **Likely Routes of Exposure:** Inhalation, skin contact, eye contact, and ingestion.
- **Chronic Effects:** Repeated exposure may cause respiratory irritation, skin sensitization, and organ effects. Formaldehyde is associated with cancer hazard.

- **Acute Toxicity (LD50 & LC50):**
 - **Formaldehyde:** Oral LD50 (rat) 100 mg/kg; Dermal LD50 values reported in toxic ranges; Inhalation LC50 values reported in low toxic ranges.
 - **Methanol:** Oral LD50 (rat) commonly reported in the low g/kg range; Dermal LD50 and inhalation toxicity data support systemic toxicity concerns. 2-Phenylphenol: Oral LD50 (rat) reported above 1,000 mg/kg.
- **Symptoms/Effect:** Harmful if swallowed or inhaled. Causes severe skin burns and eye damage. May cause allergic skin reaction. May cause respiratory irritation. Symptoms may include burning of the eyes, nose, and throat, coughing, shortness of breath, headache, nausea, and dizziness.
- **Regulatory Listings:**
 - **NTP:** Formaldehyde — Known to be a human carcinogen.
 - **IARC:** Formaldehyde — Group 1.
 - **OSHA:** Formaldehyde — Regulated carcinogen.

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life in significant releases. Avoid release to drains, soil, or waterways.
- **Persistence/Degradability:** Methanol is readily biodegradable. Formaldehyde degrades in air and water and is not expected to persist for extended periods under normal environmental conditions.
- **Bioaccumulation Potential:** Low bioaccumulation potential is expected. Methanol: Kow -0.77. Formaldehyde: Kow 0.35. BCF is expected to be low.
- **Mobility in Soil:** High mobility is expected for the water-soluble components.
- **Other Adverse Effects:** Large releases may create localized toxic effects and increase oxygen demand in water.

Section 13: Disposal Considerations

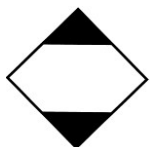
- Dispose of in accordance with federal, state, and local regulations.
- Empty containers must not be reused or recycled. Dispose of bottles and residual product in accordance with regulations.
- **Recommended Methods:** Incineration or chemical waste landfill.

Section 14: Transport Information

DOT (Ground Transport): Not regulated

Notes: Limited Quantity: YES (Permitted for small packaging)

Labels: Limited Quantity



IMDG (Ocean Transport):

UN#: UN1198

UN Proper Shipping Name: Formaldehyde solutions, flammable

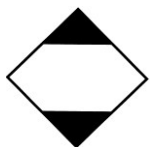
Transport Hazard Classes: 3

Packing Group Number: III

Environmental Hazards: Marine Pollutant: No

Notes: Limited Quantity: YES (Permitted for small packaging)

Labels: Limited Quantity; Flammable Liquid (Class 3); Corrosive (8)



IATA (Air Transport):

UN#: UN1198

UN Proper Shipping Name: Formaldehyde solutions, flammable

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); Corrosive (8)



Section 15: Regulatory Information

TSCA List: Components are listed on, or otherwise comply with, the TSCA inventory requirements.

EPCRA – Emergency Planning & Community Right-to-Know: Formaldehyde is an Extremely Hazardous Substance.

CERCLA Reportable Quantity: Formaldehyde — 100 lb.

SARA 302: Formaldehyde — listed; Threshold Planning Quantity (TPQ): 500 lb.

SARA 304 Extremely Hazardous Substances Reportable Quantity: Formaldehyde — 100 lb.

SARA 311/312: Fire hazard; acute health hazard; chronic health hazard.

SARA 313: Formaldehyde and methanol are listed chemicals.

California Prop 65: This product can expose users to formaldehyde, known to the State of California to cause cancer, and methanol, known to the State of California to cause birth defects or other reproductive harm.

US State Regulations: Formaldehyde and methanol are listed under applicable state right-to-know laws, including New Jersey, Pennsylvania, and Massachusetts.

Other Regulations: Subject to OSHA Formaldehyde Standard, 29 CFR 1910.1048.

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) Rev. 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: B

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:

May 01, 2026

Supersedes:

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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.