

Section 1: Identification

Product Name: Mort-San® (16oz)

Product Code: PW0415400

Recommended Use: Mortisan aids in the cleaning of instruments and has a built-in rust inhibitor.

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
- Skin Irritation Category 2
- Eye Irritation Category 2A

Signal Word: **WARNING**

Hazard Statements:

- H226: Flammable liquid and vapor.
- H302: Harmful if swallowed.
- H315: Causes skin irritation.
- H319: Causes serious eye irritation.

Precautionary Statements:

- 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.
- P264: Wash thoroughly after handling.
- P270: Do not eat, drink or smoke when using this product.
- P280: Wear protective gloves, eye protection, and face protection.
- P301+P312: IF SWALLOWED: Call a POISON CENTER or doctor if you feel unwell.
- P330: Rinse mouth.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
- P337+P313: If eye irritation persists: Get medical advice/attention.
- P362+P364: Take off contaminated clothing and wash it before reuse.
- P370+P378: In case of fire: Use alcohol-resistant foam, dry chemical, carbon dioxide, or water spray to extinguish.
- P403+P235: Store in a well-ventilated place. Keep cool.
- P501: Dispose of contents/container in accordance with local, state, and federal 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
Isopropyl Alcohol Tech 99%	67-63-0	16-26%	Flam. Liq. 2; Eye Irrit. 2A; STOT SE 3	
Benzethonium Chloride (Hyamine 1622)	121-54-0	<5%	Acute Tox. 4; Skin Irrit. 2; Eye Dam. 1	
Sodium Nitrite	7632-00-0	<1%	Ox. Sol. 3; Acute Tox. 3	
Other non-hazardous components	—	70-80%	not classified under GHS	

Section 4: First-Aid Measures

- **Inhalation:** Remove person to fresh air and keep comfortable for breathing. Get medical attention if symptoms develop or persist.
- **Skin/Eye Contact:** Wash skin with soap and water. Rinse eyes cautiously with water for several minutes. Remove contact lenses if present and easy to do. Continue rinsing. If irritation develops or persists, get medical attention.
- **Ingestion:** Rinse mouth. Do not induce vomiting unless directed by medical personnel. Get medical attention if unwell.
- **Symptoms/Effects:** Harmful if swallowed. Causes skin irritation. Causes serious eye irritation. May cause redness, burning, discomfort, or stomach upset.
- **Physician Notes:** Treat symptomatically. Monitor skin, eye, and gastrointestinal effects.

Section 5: Fire-fighting Measures

- **Suitable Extinguishing Media:** Use alcohol-resistant foam, dry chemical, carbon dioxide, or water spray.
- **Unsuitable Extinguishing Media:** No specific restrictions known.
- **Specific Hazards Arising from the Chemical:** Flammable liquid and vapor. Heating or fire may produce carbon oxides, nitrogen oxides, and irritating fumes.
- **Special Protective Equipment and Precautions for Firefighters:** Wear self-contained breathing apparatus and full protective gear. Cool exposed containers with water spray. Avoid breathing smoke, vapors, or decomposition fumes.

Section 6: Accidental Release Measures

- **Personal Precautions:** Eliminate all ignition sources. Avoid breathing vapors or mists. Avoid contact with eyes, skin, and clothing. Wear appropriate protective equipment during cleanup.
- **Emergency Procedures:** Ventilate area. Keep unnecessary and unprotected personnel away. Use non-sparking tools and prevent static discharge.
- **Methods and Materials for Containment:** Contain spill with inert absorbent material such as sand, clay, or commercial absorbent. Prevent release to drains and waterways.
- **Cleanup Procedures:** Absorb spilled material into suitable containers for disposal. Wash spill area after bulk material is removed. Dispose of waste in accordance with federal, state, and local regulations.

Section 7: Handling and Storage

- **Safe Handling:** Avoid breathing vapors or mists. Avoid contact with eyes, skin, and clothing. Use with adequate ventilation. Keep away from heat, sparks, and open flame. Wash thoroughly after handling.
- **Hygiene Measures:** Do not eat, drink, or smoke when using this product. Wash hands thoroughly after handling. Remove contaminated clothing and wash before reuse.
- **Safe Storage:** Store in a tightly closed container in a cool, dry, well-ventilated area. Keep away from heat, ignition sources, and incompatible materials. Keep container closed when not in use.
- **Incompatibilities:** Strong oxidizers. Strong acids. 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
Isopropyl Alcohol (67-63-0)	400 ppm TWA	200 ppm TWA; 400 ppm STEL	400 ppm TWA; 500 ppm STEL

Section 9: Physical and Chemical Properties

- **Appearance:** Liquid; Clear green solution.
- **Odor:** Light methyl salicylate/alcohol odor.
- **Odor Threshold:** Detectable at low vapor concentration.
- **pH:** 7.4.
- **Melting Point/Freezing Point:** Near 32°F; may be depressed by isopropyl alcohol content.
- **Initial Boiling Point/Boiling Range:** 187°F.
- **Flash Point:** >78°F.
- **Evaporation Rate:** >1.
- **Flammability:** Flammable liquid.
- **Upper/Lower Flammability or Explosive Limits:** LEL: 2%; UEL: 12.7%.
- **Vapor Pressure:** 44.44 mm Hg @ 71°F.
- **Vapor Density:** 2.1; heavier than air.
- **Relative Density/Specific Gravity:** 0.971 g/mL @ 70°F.
- **Solubility(ies):** Soluble in water.
- **Partition Coefficient: n-octanol/water:** Low to moderate; alcohol/water phase remains dominant.
- **Auto-ignition Temperature:** ~750°F, driven by isopropyl alcohol.
- **Decomposition Temperature:** May decompose under high heat or fire.
- **Viscosity:** Low; thin liquid.

Section 10: Stability and Reactivity

- **Reactivity:** Flammable liquid and vapor.
- **Chemical Stability:** Stable under normal conditions.
- **Hazardous Reactions:** Hazardous polymerization will not occur.
- **Conditions to be Avoided:** Heat, sparks, open flame, hot surfaces, and other ignition sources.
- **Incompatible Materials:** Strong oxidizers. Strong acids. Strong bases.
- **Hazardous Decomposition:** Carbon oxides, nitrogen oxides, and irritating fumes.

Section 11: Toxicological Information

- **Likely Routes of Exposure:** Inhalation, skin contact, eye contact, and ingestion.
- **Chronic Effects:** Repeated exposure may cause eye, skin, and respiratory irritation. Repeated solvent exposure may also cause headache, dizziness, and central nervous system effects.
- **Acute Toxicity (LD50 & LC50):**
 - **Isopropyl Alcohol:** Oral LD50 (rat) approximately 5,045 mg/kg; Inhalation LC50 (rat, 8 hr) approximately 16,000 ppm. Harmful if swallowed.
 - **Sodium Nitrite:** Oral LD50 (rat) approximately 180 mg/kg. Toxic if swallowed.
 - **Benzethonium Chloride:** Oral LD50 (rat) approximately 1,250 mg/kg. Harmful if swallowed. Causes severe eye damage and skin irritation.
 - **Methyl Salicylate:** Oral LD50 (rat) approximately 887 mg/kg. Harmful if swallowed.
- **Symptoms/Effect:** Eye irritation, skin irritation, headache, dizziness, nausea, and respiratory irritation. Significant ingestion may cause systemic toxicity.
- **Regulatory Listings:**
 - **NTP:** None known.
 - **IARC:** None known.
 - **OSHA:** None known

Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life. Avoid release to drains, soil, and waterways. Benzethonium chloride and sodium nitrite are the main drivers of aquatic concern.
- **Persistence/Degradability:** Isopropyl alcohol is readily biodegradable. The mixture is expected to show partial biodegradation in the environment.
- **Bioaccumulation Potential:** Isopropyl alcohol has low bioaccumulation potential. Significant bioaccumulation is not expected for the mixture.

- **Mobility in Soil:** Expected to be mobile in soil and water because the product contains water-soluble components.
- **Other Adverse Effects:** Large releases may contaminate water and may stress aquatic organisms.

Section 13: Disposal Considerations

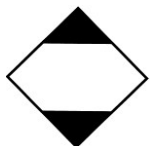
- Dispose of in accordance with federal, state, and local regulations.
- Empty containers must not be reused or recycled. Dispose of bottles and residual product in accordance with regulations.
- **Recommended Methods:** Incineration or chemical waste landfill.

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: Sodium nitrite is subject to EPCRA Section 313 reporting.

CERCLA Reportable Quantity: Sodium nitrite (7632-00-0): 100 lb.

SARA 302: No. Sodium nitrite is not listed as an Extremely Hazardous Substance under SARA 302.

SARA 304 Extremely Hazardous Substances Reportable Quantity: Sodium nitrite (7632-00-0): 100 lb.

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

SARA 313: Sodium nitrite (7632-00-0). Isopropyl alcohol is reportable only if it is manufactured by the strong acid process.

California Prop 65: No listed component was identified from the named ingredients in this product. Sodium nitrite was considered and found not to meet the criteria for listing.

US State Regulations: Sodium nitrite appears on state right-to-know lists, including Massachusetts, New Jersey, Pennsylvania, and Illinois.

Other Regulations: None identified from the named ingredients other than the reporting items above.

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: 2
Flammability: 2
Physical Hazards: 0
Personal Protection: B

National Fire Protection Association (USA)

Health: 2
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.