

## Section 1: Identification

**Product Name:** Machine/Instrument Cleaner (16oz; Gallon; 2oz – sample w/DUO)

**Product Code:** PW0462800; PW0462801; PW0462802

**Recommended Use:** Heavy duty detergent designed to dissolve and loosen dried blood and chemicals from instruments and embalming machines.

**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:

- Skin Irritation — Category 2
- Eye Irritation — Category 2A
- Aquatic Chronic — Category 3

**Signal Word:** **WARNING**

### Hazard Statements:

- H315: Causes skin irritation.
- H319: Causes serious eye irritation.
- H412: Harmful to aquatic life with long lasting effects.

### Precautionary Statements:

- P264: Wash thoroughly after handling.
- P273: Avoid release to the environment.
- P280: Wear protective gloves and eye protection.
- P302+P352: IF ON SKIN: Wash with plenty of water.
- P321: Specific treatment: see Section 4 of this SDS.
- P332+P313: If skin irritation occurs: Get medical advice/attention.
- P362+P364: Take off contaminated clothing and wash it before reuse.
- 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.
- 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	
Diethylene Glycol	111-46-6	9-19%	Acute Tox. 4	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
Nacconol 90® G	68081-81-2	<5%	Skin Irrit. 2; Eye Dam. 1; Aquatic Chronic 3	
Calfoam® ES-603 (Sodium Laureth Sulfate)	68585-34-2	<2%	Eye Irrit. 2	
Ammonyx® LO (Lauramine Oxide)	1643-20-5	<2%	Skin Irrit. 2; Eye Dam. 1; Aquatic Acute 1; Aquatic Chronic 2	
Other non-hazardous components	—	74-84%	not classified under GHS	

#### Section 4: First-Aid Measures

- **Inhalation:** Move person to fresh air. Get medical attention if irritation or symptoms develop.
- **Skin/Eye Contact:** Wash skin with plenty of water. Rinse eyes cautiously with water for several minutes. Remove contact lenses if easy to do. Continue rinsing. Get medical attention if irritation persists.
- **Ingestion:** Rinse mouth. Do not induce vomiting unless directed by medical personnel. Get medical attention if symptoms occur.
- **Symptoms/Effects:** Causes eye irritation. May cause skin irritation. Ingestion may cause gastrointestinal upset.
- **Physician Notes:** Treat symptomatically.

#### Section 5: Fire-fighting Measures

- **Suitable Extinguishing Media:** Water spray, dry chemical, foam, or carbon dioxide.
- **Unsuitable Extinguishing Media:** Do not use a direct water stream on large fires.
- **Special Hazards Arising from the Chemical:** Product is not expected to be highly flammable. Heating or fire may produce carbon oxides, sulfur oxides, and other irritating fumes.
- **Advice for Firefighters:** Wear self-contained breathing apparatus and full protective gear. Cool exposed containers with water spray.

#### Section 6: Accidental Release Measures

- **Personal Precautions:** Keep unnecessary personnel away. Avoid contact with skin and eyes. Wear proper protective equipment.
- **Emergency Procedures:** Ventilate area if needed. Prevent spill from spreading.
- **Methods and Materials for Containment:** Dike or absorb with sand, earth, or other inert material. Keep out of drains and waterways.
- **Cleanup Procedures:** Collect spilled material into suitable containers. Wash residue with water. Dispose of waste according to regulations.

#### Section 7: Handling and Storage

- **Safe Handling:** Avoid contact with skin and eyes. Avoid breathing mist or spray. Use good industrial hygiene and ventilation.
- **Hygiene Measures:** Wash thoroughly after handling. Do not eat, drink, or smoke when using this product. Wash contaminated clothing before reuse.
- **Safe Storage:** Keep container tightly closed. Store in a cool, dry, well-ventilated area.
- **Incompatibilities:** Strong oxidizers, strong acids, and strong bases.

#### Section 8: Exposure Controls/Personal Protection

- **Engineering Controls:** General ventilation is normally adequate. Use local exhaust if mists are generated or if ventilation is insufficient.
- **Personal Protective Equipment (PPE):**
  - **Gloves:** Wear chemical-resistant gloves if prolonged or repeated contact is expected.
  - **Eye/Face Protection:** Wear safety glasses or chemical splash goggles.
  - **Respiratory Protection:** Not normally required under normal conditions of use. Use appropriate respiratory protection if mist is generated or ventilation is inadequate.
  - **Skin/Body:** Wear protective clothing as needed to prevent repeated or prolonged skin contact
- **Exposure Limits Table:** No components in the provided formula have an established OSHA PEL, ACGIH TLV, or NIOSH REL requiring listing in the exposure limits table.

#### Section 9: Physical and Chemical Properties

- **Appearance:** Liquid; Clear yellow soap-like solution.
- **Odor:** Mild surfactant/glycol odor.
- **Odor Threshold:** Low odor; may be detectable at elevated vapor concentration.
- **pH:** Mildly acidic to neutral expected.
- **Melting Point/Freezing Point:** Near 32°F; may be depressed by glycol/surfactant content.
- **Initial Boiling Point/Boiling Range:** ~212°F; boiling range extends higher.
- **Flash Point:** >200°F.
- **Evaporation Rate:** <1.
- **Flammability:** Combustible liquid; not readily ignited at room temperature.
- **Upper/Lower Flammability or Explosive Limits:** No explosive limits expected for water-diluted liquid.

- **Vapor Pressure:** Low; dominated by water phase.
- **Vapor Density:** >1 if vapors form during heating.
- **Relative Density/Specific Gravity:** ~1.00–1.08 g/mL.
- **Solubility(ies):** Soluble in water.
- **Partition Coefficient: n-octanol/water:** Low; aqueous surfactant/glycol mixture remains mainly water-dispersible.
- **Auto-ignition Temperature:** Estimated >500°F.
- **Decomposition Temperature:** May decompose under high heat or fire.
- **Viscosity:** Low to moderate; soap-like liquid.

### Section 10: Stability and Reactivity

- **Reactivity:** May react with strong oxidizers.
- **Chemical Stability:** Stable under normal conditions of storage and use.
- **Hazardous Reactions:** Hazardous polymerization is not expected.
- **Conditions to be Avoided:** Excess heat, freezing, and contact with incompatible materials.
- **Incompatible Materials:** Strong oxidizers, strong acids, and strong bases.
- **Hazardous Decomposition:** Carbon oxides, sulfur oxides, and irritating fumes may form on decomposition or burning.

### Section 11: Toxicological Information

- **Likely Routes of Exposure:** Eye contact, skin contact, ingestion, inhalation of mist.
- **Chronic Effects (delayed, immediate, or long-term effects):** Repeated skin contact may cause irritation or dryness. Repeated eye exposure may aggravate irritation. No strong chronic systemic hazard is indicated by the finished-product profile.
- **Acute Toxicity (LD50 & LC50):**
  - **Diethylene Glycol:** Oral LD50 (rat) about 12,570 mg/kg.
  - **Sodium Xylenesulfonate:** Oral LD50 (rat) about 5,000–7,200 mg/kg. The surfactant portion is expected to act mainly as a local irritant to skin and eyes rather than as a strong acute systemic toxin at the concentrations present.
- **Symptoms/Effect:** Causes serious eye irritation. May cause skin irritation. Ingestion may cause gastrointestinal upset. Mist may irritate the nose and throat.
- **Regulatory Listings:**
  - **NTP:** Not listed.
  - **IARC:** Not listed.
  - **OSHA:** Not listed.

### Section 12: Ecological Information

- **Ecotoxicity:** Harmful to aquatic life with long lasting effects. The main environmental concern comes from the surfactant portion rather than the water or dye.
- **Persistence/Degradability:** Diethylene glycol is expected to biodegrade. Sodium xylenesulfonate is described as low concern overall and mainly an eye irritant. Surfactant components such as dodecylbenzene sulfonate and amine oxide can be more ecotoxic in water but are generally used in detergent systems intended to dilute and degrade.
- **Bioaccumulation Potential:** Low overall. Reported values include diethylene glycol log Kow about -1.47 to -1.5 with BCF about 3; sodium xylenesulfonate log Kow about 0.56 with BCF about 1; sodium dodecylbenzenesulfonate log Kow about 0.7 to 3.32 with BCF generally low to moderate; lauramine oxide is described as having log Kow <3 and low bioaccumulation potential.
- **Mobility in Soil:** High for diethylene glycol. Sodium xylenesulfonate is also expected to be mobile in water systems. Surfactant components may adsorb more strongly to soil and sludge than the glycol portion.
- **Other Adverse Effects:** Avoid discharge to drains, waterways, or soil. Large releases may affect wastewater treatment systems and aquatic environments.

### 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  
**IMDG (Ocean Transport):** Not regulated  
**IATA (Air Transport):** Not regulated

**Section 15: Regulatory Information**

**TSCA List:** Chemical substances are subject to TSCA inventory requirements for commercial use.  
**EPCRA – Emergency Planning & Community Right-to-Know:** Subject to applicable EPCRA Sections 311/312 reporting requirements for hazardous chemicals requiring an SDS.  
**CERCLA Reportable Quantity:** No CERCLA reportable quantity is identified for the finished product as shipped.  
**SARA 302:** No chemicals in this product are identified for SARA 302 reporting.  
**SARA 304 Extremely Hazardous Substances Reportable Quantity:** No chemicals in this product are identified for SARA 304 release notification.  
**SARA 311/312:** Skin irritation; serious eye irritation.  
**SARA 313:** No chemicals in this product are identified for SARA 313 reporting.  
**California Prop 65:** No Proposition 65 chemicals are identified for this product.  
**US State Regulations:** New Jersey Right to Know; Pennsylvania Worker and Community Right-to-Know; Massachusetts Right-to-Know.  
**Other Regulations:** Handle in accordance with applicable federal, state, and local regulations.

**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: 0  
 Physical Hazards: 0  
 Personal Protection: B

**National Fire Protection Association (USA)**

Health: 2  
 Flammability: 0  
 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  
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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.*