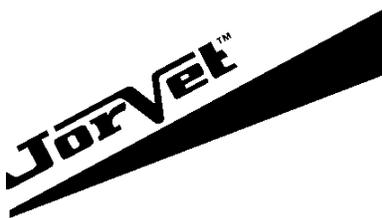


## SAFETY DATA SHEETS

**This SDS packet was issued with item:**

078024620

N/A



# Safety Data Sheet

## 1. IDENTIFICATION

**Product Identifier:** Lactophenol Cotton Blue

**Product Code(s):** J0326B

**Synonyms:** Mixture.

**Recommended Use:** For in vitro veterinary use only.

**Uses Advised Against:** Not for use on humans.

**Supplier:** Jorgensen Laboratories  
1450 Van Buren Avenue, Loveland, CO 80538  
Phone: (970) 669-2500 or (800) 525-5614 Fax: (970) 663-5042

**Emergency Phone Number:** U.S. and Canada: (800) 535-5053 International: (352) 323-3500 (INFOTRAC)

## 2. HAZARDS IDENTIFICATION

**Hazard Classifications:**

Acute Toxicity – Oral:	Category 4
Acute Toxicity – Inhalation:	Category 4
Skin Corrosion/Irritation:	Category 1B
Eye Damage/Irritation:	Category 1
Germ Cell Mutagenicity:	Category 2
Specific Target Organ Toxicity (Repeated Exposure):	Category 2

**Signal Word:** DANGER

**Hazard Statements:**

- Harmful if swallowed.
- Harmful if inhaled.
- Causes severe skin burns and serious eye damage.
- Suspected of causing genetic defects.
- May cause damage to organs through prolonged or repeated exposure.

**Pictograms:**



**Precautionary Statements:**

- Prevention:** Wash thoroughly after handling.  
Do not eat, drink, or smoke when using this product.  
Do not breathe fumes, mists, vapors, or spray.  
Use only outdoors or in a well-ventilated area.  
Wear protective gloves, protective clothing, eye protection, and face protection.  
Obtain special instructions before use.  
Do not handle until all safety precautions have been read and understood.
- Response:** Immediately call a poison center or doctor.  
If swallowed: Rinse mouth. Do NOT induce vomiting.  
If inhaled: Remove person to fresh air and keep comfortable for breathing.  
If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water.  
Wash contaminated clothing before reuse.  
If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.  
If exposed or concerned: Get medical attention.
- Storage:** Store locked up.
- Disposal:** Disposal of contents and container in accordance with local, regional, national, and international regulations.
- Hazards Not Otherwise Classified:** Not applicable.
- Toxicity Statement:** Not applicable.

**3. COMPOSITION AND INFORMATION ON INGREDIENTS**

Component	Common Name / Synonyms	CAS#	Chemical Formula	% by Weight
Water	Water	7732-18-5	H <sub>2</sub> O	18.1
Glycerin	Glycerol	56-81-5	C <sub>3</sub> H <sub>8</sub> O <sub>3</sub>	41.9
Lactic Acid	2-Hydroxypropionic Acid	50-21-5	C <sub>3</sub> H <sub>6</sub> O <sub>3</sub>	21.9
Phenol	Hydroxybenzene	108-95-2	C <sub>6</sub> H <sub>6</sub> O	18.1
Methyl Blue	Cotton Blue	28983-56-4	Na <sub>2</sub> C <sub>37</sub> H <sub>27</sub> N <sub>3</sub> O <sub>9</sub> S <sub>3</sub>	0.0453

**Trade Secret Statement:** Not applicable.

**4. FIRST AID MEASURES****First Aid Procedures:**

- Inhalation:** Move to fresh air. If breathing is difficult, give oxygen. If not breathing, give artificial respiration. Immediately call a poison center or doctor.
- Ingestion:** Do not induce vomiting unless directed to do so by medical personnel. If vomiting occurs, keep head low so that vomit does not enter lungs. Never give anything by mouth to an unconscious person. Immediately call a poison center or doctor.
- Skin Contact:** Remove contaminated clothing and shoes. Wash skin with plenty of water for at least 15 minutes. Wash clothing before reuse. Immediately call a poison center or doctor.

**Eye Contact:** Check for and remove contact lenses if present and easy to do. Immediately flush eyes with gentle but large stream of water for at least 15 minutes, lifting lower and upper eyelids occasionally. Immediately call a poison center or doctor.

**General Advice:** Ensure that medical personnel and those providing first aid are aware of the material(s) involved and take precautions to protect themselves.

**Symptoms and Effects:** Ingestion may cause burns, nausea, vomiting, abdominal pain, and organ damage. Inhalation may cause coughing, shortness of breath, and respiratory burns. Contact with skin may cause burns. Contact with eyes may cause tissue damage. Prolonged or repeated exposure may cause organ damage.

**Immediate Medical Care/  
Special Treatment:** Immediately call a poison center or doctor. Treat symptomatically.

## 5. FIREFIGHTING MEASURES

**Suitable Extinguishing Media:** Water spray, dry powder, alcohol resistant foam, carbon dioxide.

**Unsuitable Extinguishing Media:** Do not use a solid (straight) water stream, as it may scatter and spread fire.

**Hazardous Combustion Products:** Carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides, toxic fumes.

**Specific Hazards:** Excessive thermal conditions may cause decomposition and yield hazardous decomposition products listed above.

**Special Protective Equipment/  
Precautions for Firefighters:** As in any fire, wear MSHA/NIOSH-approved (or equivalent), self-contained, positive-pressure or pressure-demand breathing apparatus and full protective gear. In the event of fire and/or explosion, do not breathe fumes.

## 6. ACCIDENTAL RELEASE MEASURES

**Personal Precautions and Protective Equipment:** Isolate hazard area and keep unnecessary and unprotected personnel away from the area of the leak or spill. Wear appropriate personal protective equipment (see Section 8). Avoid contact with eyes, skin, and clothing.

**Emergency Procedures:** In case of chemical emergency, or if unsure how to address an accidental release, consult a professional (see Section 1).

**Methods for Containment:** Stop the flow of material, if this is without risk. Prevent entry into waterways, sewer, basements, or confined areas. Dike the spilled material, where this is possible. Product should not be released to the environment. Contain and recover liquid when possible.

**Methods for Cleanup:** Absorb spill with an inert material (e.g. vermiculite, dry sand, earth, cloth, or fleece) and place in a noncombustible container for reclamation or disposal. Do not flush to sewer. Clean contaminated surface thoroughly. Spills can be dissolved with alcohol or acetone solution. Never return spills in original containers for reuse. Clean up in accordance with all applicable regulations.

## 7. HANDLING AND STORAGE

**Handling:** Avoid contact with skin, eyes, and clothing. Do not breathe vapors or spray mist. Do not ingest. When using, do not eat, drink, or smoke. Keep away from incompatible materials (see Section 10). Handle in accordance with good industrial hygiene and safety practice.

Wash thoroughly after handling. Containers of this material may be hazardous when empty, as they retain product residues. Observe all warnings and precautions listed for this product.

**Storage:**

Store in a cool, dry, ventilated area. Store away from incompatible materials (see Section 10). Store in original container. Keep containers tightly closed and upright. Keep away from food, drink, and animal foodstuffs. Keep out of the reach of children. Comply with all national, state, and local codes pertaining to the storage, handling, dispensing, and disposal of this product.

## 8. EXPOSURE CONTROLS AND PERSONAL PROTECTION

**Exposure Limits:**

Water:	No information found.
Glycerin:	ACGIH: TLV: 10 mg/m <sup>3</sup> OSHA: PEL: 15 mg/m <sup>3</sup>
Lactic Acid:	No information found.
Phenol:	ACGIH: TLV: 5 mg/m <sup>3</sup> OSHA: PEL: 19 mg/m <sup>3</sup> NIOSH: CEIL: 60 mg/m <sup>3</sup>
Methyl Blue:	No information found.

**Engineering Controls:**

Ensure adequate ventilation. 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. If exposure limits have not been established, maintain airborne levels to an acceptable level.

**Personal Protective Measures:**

**Eye/Face Protection:**

Wear safety glasses with side shields or safety goggles. Wear a face shield. Maintain approved eye wash station and accessible rinse facilities in work area.

**Skin Protection:**

Wear appropriate chemical resistant clothing (with long sleeves) and appropriate chemical resistant gloves.

**Respiratory Protection:**

An air-purifying, NIOSH-approved respirator with appropriate cartridge or canister may be permissible under certain circumstances where airborne concentrations are expected to exceed exposure limits. Use a positive-pressure, air-supplied respirator if there is any potential for an uncontrolled release, if exposure levels are unknown, or if any other circumstances exist where air-purifying respirators may not provide adequate protection.

**Specific Requirements for Personal Protective**

Ensure that glove material is compatible with this product. This information is available from glove manufacturers.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

*Unless otherwise indicated, all properties are given at 25 °C and standard pressure.*

**Appearance:**

Blue, opaque liquid.

**Odor:**

Mild, phenolic.

**Odor Threshold:**

No information found.

**Formula Weight:**

Mixture.

**pH:**

No information found.

<b>Melting/Freezing Point:</b>	< 20 °C
<b>Boiling Point/Range:</b>	> 100 °C
<b>Decomposition Temperature:</b>	No information found.
<b>Flash Point:</b>	Not applicable.
<b>Auto-ignition Temperature:</b>	Not applicable.
<b>Flammability:</b>	Not flammable or explosive.
<b>Flammability/Explosive Limits:</b>	Not applicable.
<b>Solubility:</b>	Miscible with water.
<b>Vapor Pressure:</b>	No information found.
<b>Vapor Density:</b>	No information found.
<b>Specific Gravity:</b>	1.01 (Water = 1)
<b>Evaporation Rate:</b>	No information found.
<b>Viscosity:</b>	No information found.
<b>Partition Coefficient (n-octanol/water):</b>	No information found.

## 10. STABILITY AND REACTIVITY

<b>Reactivity Data:</b>	No information found.
<b>Chemical Stability:</b>	Stable under normal conditions.
<b>Conditions to Avoid:</b>	Heat, incompatible materials.
<b>Incompatible Materials:</b>	Oxidizing agents, strong acids, strong bases.
<b>Hazardous Decomposition Products:</b>	Carbon oxides, nitrogen oxides, sodium oxides, sulfur oxides, toxic fumes.
<b>Possibility of Hazardous Reactions:</b>	May react vigorously or violently if exposed to extreme thermal conditions or if contacted with the incompatible materials listed above.
<b>Hazardous Polymerization:</b>	Will not occur.

## 11. TOXICOLOGICAL INFORMATION

<b>Routes of Exposure:</b>	Inhalation, ingestion, skin contact, eye contact.
<b>Acute Effects:</b>	Harmful if swallowed. May cause irritation or burns to the eyes, skin, respiratory tract, and gastrointestinal tract. May affect the nervous system, respiratory system, and circulatory system.
<b>Chronic Effects:</b>	Prolonged or repeated exposure may affect the liver, kidneys, bladder, brain, endocrine system, and immune system.
<b>Toxicological Data:</b>	Water: Not applicable.

Glycerin:	LD <sub>50</sub> Oral, Rat: 12,600 mg/kg LD <sub>50</sub> Dermal, Rabbit: > 10,000 mg/kg Causes mild eye and skin irritation based on animal data.
Lactic Acid:	LD <sub>50</sub> Oral, Rat: 3543 mg/kg LD <sub>50</sub> Dermal, Rabbit: > 2000 mg/kg Causes skin irritation based on animal data. Corrosive to eyes based on animal data.
Phenol:	LD <sub>50</sub> Oral, Rat: 317 mg/kg LD <sub>50</sub> Dermal, Rabbit: 630 mg/kg LD <sub>50</sub> Inhalation, Rat: 0.316 mg/L 4 h Causes severe skin and eye irritation based on animal data. May cause mutagenic effects based on animal data.
Methyl Blue:	No information found.

**Symptoms of Exposure:** Irritation, burns, nausea, vomiting, diarrhea, abdominal pain, coughing, shortness of breath, nervous system effects.

**Carcinogenic Effects:** No component of this product is considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA.

**IARC:** Phenol: 3 – Not classifiable as to its carcinogenicity to humans.

**ACGIH:** Phenol: A4 – Not classifiable as a human carcinogen.

## 12. ECOLOGICAL INFORMATION

<b>Ecotoxicological Data:</b>	Water: No information found.
	Glycerin: No information found.
	Lactic Acid: No information found.
	Phenol: No information found.
	Methyl Blue: No information found.

**Persistence and Degradability:** May not be readily biodegradable.

**Environmental Effects:** May be hazardous to aquatic life and groundwater resources. Avoid release to the environment.

## 13. DISPOSAL INFORMATION

**Disposal Instructions:** All wastes must be handled in accordance with local, state, and federal regulations. Minimize exposure to product waste (see Section 8).

**Contaminated Packaging:** Because emptied containers retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

**Waste Codes:** D002: Waste Corrosive Material (pH ≤ 2 or pH ≥ 12.5 or corrosive to steel)

## 14. TRANSPORT INFORMATION

**DOT:**

**UN Number:** UN2821  
**Proper Shipping Name:** Phenol solutions  
**Hazard Class:** 6.1  
**Packing Group:** III  
**ERG Number:** 153

**Other Transport Precautions:** No information found.

## 15. REGULATORY INFORMATION

**U.S. Federal Regulations:**

**OSHA:** This product is considered a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

**TSCA Inventory:** All components of this product are on the U.S. TSCA Inventory.

**U.S. EPCRA (SARA Title III):**

**Section 302:** No information found.

**Sections 311/312:**

Hazard Category	List (Yes/No)
Section 311 – Hazardous Chemical	Yes
Immediate Hazard	Yes
Delayed Hazard	Yes
Fire Hazard	No
Pressure Hazard	No
Reactivity Hazard	No

**Section 313:** Phenol

**CERCLA Reportable Quantities:** No information found.

**Canada WHMIS:** This SDS is prepared in compliance with the Globally Harmonized System of Classification and Labelling of Chemicals (GHS). Therefore, it complies with the 2015 Workplace Hazardous Materials Information System (WHMIS) as well.

**International Inventories:**

Country or Region	Inventory Name	On Inventory (Yes/No)*
Australia	Australian Inventory of Chemical Substances (AICS)	Yes
Canada	Domestic Substances List (DSL)	Yes
Canada	Non-Domestic Substances List (NDSL)	No
China	Inventory of Existing Chemical Substances in China (IECSC)	Yes
Europe	European Inventory of Existing Commercial Chemical Substances (EINECS)	Yes
Europe	European List of Notified Chemical Substances (ELINCS)	No
Japan	Inventory of Existing and New Chemical Substances (ENCS)	Yes
Korea	Existing Chemicals List (ECL)	Yes
Philippines	Philippine Inventory of Chemicals and Chemical Substances (PICCS)	Yes

\*A "Yes" indicates that the listed components of this product comply with the inventory requirements administered by the governing country or region.

**16. OTHER INFORMATION****Disclaimer:**

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**Issue Date:**

October 6, 2016

**Reason for Revision:**

Update of Sections 8, 9, 11, 12, and 15 over 04/21/2016 version.