

Date Prepared: 05/10/2016

1 Identification

Reviewed On: 04/21/2016

| Produ | ct Id | lontif | ïer: |
|-------|-------|--------|------|

- · Product Name: Lactophenol Cotton Blue
- · Catalog Number: 261188
- · Application of the substance / the mixture Laboratory Chemicals Laboratory Chemicals
- · Details of the supplier of the safety data sheet
- · Manufacturer/Supplier: **BD** Diagnostic Systems 7 Loveton Circle Sparks, MD 21152 Telephone: (410) 771 - 0100 or (800) 638 - 8663 Email Address: Technical\_Services@bd.com
- · Information Department: Technical Service
- · Emergency telephone number: In case of a chemical emergency, spill, fire, exposure, or accident, contact BD Diagnostic Systems (410) 771-0100 or (800)-638-8663, or ChemTrec at (800) 424-9300.

## 2 Hazard(s) identification

Classification of the substance or mixture GHS08 Health hazard Muta<sub>.</sub> 2 H341 Suspected of causing genetic defects. STOT RE 2 H373 May cause damage to organs through prolonged or repeated exposure. GHS05 Corrosion Skin Corr. 1B H314 Causes severe skin burns and eye damage. Eye Dam. 1 H318 Causes serious eye damage. GHS07 Acute Tox. 4 H302 Harmful if swallowed. Acute Tox. 4 H332 Harmful if inhaled. STOT SE 3 H335 May cause respiratory irritation. Flam. Liq. 4 H227 Combustible liquid. (Contd. on page 2) - US



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- · Label elements
- · GHS label elements

The product is classified and labeled according to the Globally Harmonized System (GHS). • **Hazard pictograms** 



#### · Signal word Danger

- · Hazard-determining components of labeling:
- phenol
- latic acid

#### · Hazard statements

H227 Combustible liquid.

H302+H332 Harmful if swallowed or if inhaled.

- H314 Causes severe skin burns and eye damage.
- H341 Suspected of causing genetic defects.
- H335 May cause respiratory irritation.
- H373 May cause damage to organs through prolonged or repeated exposure.

#### · Precautionary statements

- P210 Keep away from flames and hot surfaces. No smoking.
- P260 Do not breathe dusts or mists.
- P280 Wear protective gloves / eye protection / face protection.
- 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.
- P201 Obtain special instructions before use.
- P202 Do not handle until all safety precautions have been read and understood.

P303+P361+P353 If on skin (or hair): Take off immediately all contaminated clothing. Rinse skin with water/shower.

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/doctor.

- P301+P312IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.P304+P340IF INHALED: Remove person to fresh air and keep comfortable for
- breathing.
- P363 Wash contaminated clothing before reuse.

P308+P313 IF exposed or concerned: Get medical advice/attention.

- P301+P330+P331 If swallowed: Rinse mouth. Do NOT induce vomiting.
- P314 Get medical advice/attention if you feel unwell.
- P370+P378 In case of fire: Use for extinction: CO2, powder or water spray.
- P405 Store locked up.
- P403+P233 Store in a well-ventilated place. Keep container tightly closed.

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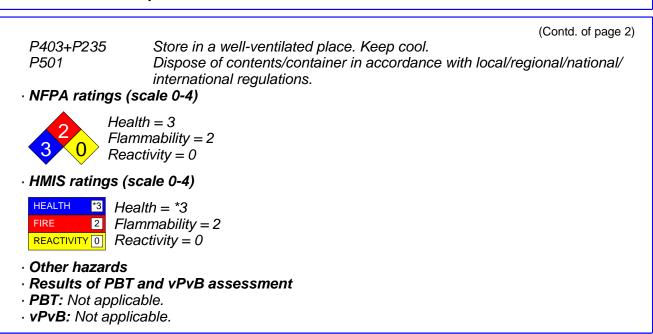
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## 3 Composition/information on ingredients

· Chemical characterization: Substances

· Identification number(s): Not applicable

· Chemical characterization: Mixture

· Description: Mixture consisting of the following components.

· Dangerous Components:

| · Dangerous Compo  | nents.   |       |  |  |  |
|--|--|-------|--|--|--|
| CAS: 108-95-2  | phenol   | 20.0% |  |  |  |
| EINECS: 203-632-7  | Acute Tox. 3, H301; Acute Tox. 3, H311; Acute Tox. 3, H331;<br>Muta. 2, H341; STOT RE 2, H373; Skin Corr. 1B, H314 |       |  |  |  |
| CAS: 50-21-5   | latic acid   | 20.0% |  |  |  |
| EINECS: 200-018-0  | Skin Irrit. 2, H315; Eye Irrit. 2A, H319; STOT SE 3, H335  | -     |  |  |  |
| • Additional information Risk phrases refer to section 15. |  |       |  |  |  |

## 4 First-aid measures

- · Description of first aid measures
- · General information No special measures required.
- · After inhalation Seek medical treatment in case of complaints.
- After skin contact Immediately wash with water and soap and rinse thoroughly.
- · After eye contact
- Rinse opened eye for 15 minutes under running water. Then consult a doctor.
- After swallowing Call a doctor immediately.
- · Information for doctor Show this product label or this SDS.

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- *Most important symptoms and effects, both acute and delayed* No further relevant information available.
- Indication of any immediate medical attention and special treatment needed No further relevant information available.

### 5 Fire-fighting measures

- · Extinguishing media
- Suitable extinguishing agents CO2, ABC multipurpose dry chemical or water spray. Fight larger fires with water spray or alcohol resistant foam.
- **Special hazards arising from the substance or mixture** No further relevant information available.
- · Advice for firefighters
- · Protective equipment: No special measures required.

#### 6 Accidental release measures

- · Personal precautions, protective equipment and emergency procedures Not required.
- Environmental precautions: Wipe up with damp sponge or mop.
- *Methods and material for containment and cleaning up:* Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders). Use neutralizing agent.
- Reference to other sections
   See Section 7 for information on safe handling.
   See Section 8 for information on personal protection equipment.
   See Section 13 for disposal information.

## 7 Handling and storage

- · Handling
- · Precautions for safe handling Ensure good ventilation/exhaustion at the workplace.
- Information about protection against explosions and fires: No special measures required.
- · Conditions for safe storage, including any incompatibilities
- · Storage
- · Requirements to be met by storerooms and receptacles: No special requirements.
- Information about storage in one common storage facility: Do not store together with oxidizing and acidic materials. Do not store together with alkaline material.
- Further information about storage conditions: Store in cool, dry conditions in well sealed containers.

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<sup>–</sup> US

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· Specific end use(s) No further relevant information available.

### 8 Exposure controls/personal protection

- Additional information about design of technical systems: No further data; see Section 7. Not applicable
- · Control parameters
- · Components with limit values that require monitoring at the workplace:

#### 108-95-2 phenol

- PEL Long-term value: 19 mg/m³, 5 ppm Skin
- REL Long-term value: 19 mg/m³, 5 ppm Ceiling limit value: 60\* mg/m³, 15.6\* ppm \*15-min; Skin
- TLV Long-term value: 19 mg/m<sup>3</sup>, 5 ppm Skin; BEI

#### · Ingredients with biological limit values:

#### 108-95-2 phenol

BEI 250 mg/g creatinine Medium: urine Time: end of shift

ime: end of shift

Parameter: Phenol with hydrolysis (background, nonspecific)

· Additional information: The lists that were valid during the creation were used as basis.

#### · Exposure controls

#### · Personal Protective Equipment

• General protective and hygienic measures Keep away from foodstuffs, beverages and feed. Immediately remove all soiled and contaminated clothing. Wash hands before breaks and at the end of work. Store protective clothing separately.

Avoid contact with the eyes and skin.

#### · Breathing equipment:

In case of brief exposure, use a chemical fume hood or a NIOSH/MSHA-approved respirator. • **Protection of hands:** 



Chemical resistant gloves (i.e. nitrile, or equivalent).

· Eye protection: Safety glasses

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· Body protection: Protective work clothing (lab coat).

|   | sical and chemical properties                 |  |
|---|---|--|
| General Information<br>Appearance:  |   |  |
| Form:   | Liquid  |  |
| Color:  | Dark blue                                     |  |
| Odor:   | Odorless                                      |  |
| pH-value:   | 1.6 +/- 0.2                                   |  |
| Change in condition<br>Melting point/Melting rai<br>Boiling point/Boiling rai |   |  |
| Flash point:  | Not applicable                                |  |
| Auto igniting:  | Product is not self igniting.                 |  |
| Danger of explosion:  | Product does not present an explosion hazard. |  |
| Density:  | Not determined                                |  |
| Solubility in / Miscibility w<br>Water:                                       | vith<br>Soluble                               |  |
| • Other information   | No further relevant information available.    |  |

## 10 Stability and reactivity

- · Reactivity No further relevant information available.
- · Chemical stability
- · Thermal decomposition / conditions to be avoided: No decomposition if used according to specifications.
- · Possibility of hazardous reactions No dangerous reactions known
- · Conditions to avoid No further relevant information available.
- · Incompatible materials: Incompatible materials: acids, bases, and oxidizers.
- · Hazardous decomposition products: Carbon monoxide (CO) and carbon dioxide (CO2)

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US



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| Toxico     | ologic    | al information   |  |  |
|------------|-----------|--|--|--|
|            |           | n toxicological effects  |  |  |
| · Acute t  |           | es that are relevant for classification:                                   |  |  |
| 108-95-    |           |  |  |  |
|            | •         | 300 mg/kg (mus)  |  |  |
| era.       |           | 317 mg/kg (rat)  |  |  |
| Dermal     |           | 670 mg/kg (rat)  |  |  |
| · Primary  |           |  |  |  |
|            |           | austic effect on skin and mucous membranes.                                |  |  |
| · on the o | eye: Sti  | rong caustic effect.   |  |  |
|            |           | No sensitizing effects known.  |  |  |
|            |           | hronic toxicity: Target organ: kidneys                                     |  |  |
|            |           | cological information:   |  |  |
|            |           | nows the following dangers according to internally approved calculation    |  |  |
|            |           |  |  |  |
|            | s tor pre | eparations:  |  |  |
| Toxic      |           |  |  |  |
| Corrosi    | ve (cau:  | ses skin burns)  |  |  |
| Swallow    | ving will | l lead to a strong caustic effect on mouth and throat and to the danger of |  |  |
|            |           | esophagus and stomach.   |  |  |
| · Carcino  | ogenic    | categories   |  |  |
| · IARC (I  | nternat   | tional Agency for Research on Cancer)                                      |  |  |
| 108-95-    | 2 pher    | nol  |  |  |
| · NTP (N   | ational   | Toxicology Program)  |  |  |
| None of    | the inc   | gredients is listed.   |  |  |
|            | uno mig   |  |  |  |
| · OSHA-    |           | cupational Safety & Health Administration)                                 |  |  |
|            | Ca (Oco   | cupational Safety & Health Administration) predients is listed.            |  |  |

## **12 Ecological information**

· Toxicity

- · Aquatic toxicity: No further relevant information available.
- · Persistence and degradability No further relevant information available.
- · Behavior in environmental systems:
- · Bioaccumulative potential No further relevant information available.
- · Mobility in soil No further relevant information available.

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· Ecotoxical effects:

• Other information: The ecological effects have not been thoroughly investigated, but currently none have been identified.

- · Results of PBT and vPvB assessment
- · PBT: Not applicable.
- vPvB: Not applicable.

· Other adverse effects No further relevant information available.

## **13 Disposal considerations**

· Waste treatment methods

· Recommendation

Dispose of material in accordance with federal (40 CFR 261.3), state and local requirements. RCRA hazardous waste - RCRA # D002 (Corrosive). Must not be disposed of with solid waste.

- Uncleaned packagings:
- Recommendation: Disposal must be made according to state and federal regulations.
- · Recommended cleansing agent: Water, if necessary with cleansing agents.

| · UN-Number   |                          |  |
|---|--------------------------|--|
| · DOT, ADN, IMDG, IATA  | Void                     |  |
| · UN proper shipping name   |                          |  |
| · DOT, ADN, IMDG, IATA  | Void                     |  |
| · Transport hazard class(es)  |                          |  |
| · DOT, ADN, IMDG, IATA  |                          |  |
| · Class   | Void                     |  |
| · Packing group   |                          |  |
| · DOT, IMDG, IATA   | Void                     |  |
| · Environmental hazards:<br>· Marine pollutant:   | No                       |  |
| · Special precautions for user  | Not applicable.          |  |
| <ul> <li>Transport in bulk according to Annex<br/>MARPOL73/78 and the IBC Code</li> </ul> | Il of<br>Not applicable. |  |

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· UN "Model Regulation":

## **15 Regulatory information**

- Safety, health and environmental regulations/legislation specific for the substance or mixture
- · SARA Section 355 (extremely hazardous substances)
- 108-95-2 phenol
- · SARA Section 313 (specific toxic chemical listings)
- 108-95-2 phenol
- · TSCA (Toxic Substances Control Act)
  - 56-81-5 glycerol
  - 108-95-2 phenol
- 50-21-5 latic acid
- 7732-18-5 water
- · California Proposition 65 Chemicals known to cause cancer

None of the ingredients is listed.

 California Proposition 65 - Chemicals known to cause reproductive toxicity for females:

None of the ingredients is listed.

- California Proposition 65 Chemicals known to cause reproductive toxicity for males:
   None of the ingredients is listed.
- California Proposition 65 Chemicals known to cause developmental toxicity:
   None of the ingredients is listed.

· Carcinogenic categories

· TLV (Threshold Limit Value established by ACGIH)

108-95-2 phenol

- · GHS label elements
- The product is classified and labeled according to the Globally Harmonized System (GHS). Hazard pictograms



· Signal word Danger

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Void



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|                   | (Contd. of page 9)  |
|-------------------|---|
| Hazard-determini  | ng components of labeling:  |
| phenol            |   |
| latic acid        |   |
| Hazard statement  | 's  |
|                   | ustible liquid.   |
|                   | ful if swallowed or if inhaled.   |
|                   | es severe skin burns and eye damage.  |
|                   | ected of causing genetic defects.   |
|                   | ause respiratory irritation.  |
| ,                 | ause damage to organs through prolonged or repeated exposure.   |
| Precautionary sta |   |
|                   | Keep away from flames and hot surfaces. – No smoking.   |
|                   | Do not breathe dusts or mists.  |
| P280              | Wear protective gloves / eye protection / face protection.  |
| 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.   |
| P201              | Obtain special instructions before use.   |
| -                 | Do not handle until all safety precautions have been read and understood.                               |
| P303+P361+P353    | If on skin (or hair): Take off immediately all contaminated clothing. Rinse                             |
|                   | skin with water/shower.   |
|                   | If in eyes: Rinse cautiously with water for several minutes. Remove                                     |
|                   | contact lenses, if present and easy to do. Continue rinsing.  |
|                   | Immediately call a POISON CENTER/doctor.  |
|                   | IF SWALLOWED: Call a POISON CENTER/doctor if you feel unwell.   |
|                   | IF INHALED: Remove person to fresh air and keep comfortable for   |
|                   | breathing.  |
| P363              | Wash contaminated clothing before reuse.  |
|                   | IF exposed or concerned: Get medical advice/attention.  |
|                   | If swallowed: Rinse mouth. Do NOT induce vomiting.  |
|                   | Get medical advice/attention if you feel unwell.  |
|                   | In case of fire: Use for extinction: CO2, powder or water spray.  |
|                   | Store locked up.  |
| P403+P233         | Store in a well-ventilated place. Keep container tightly closed.  |
| P403+P235         | Store in a well-ventilated place. Keep cool.  |
|                   | Dispose of contents/container in accordance with local/regional/national/<br>international regulations. |
|                   | <b>issessment:</b> A Chemical Safety Assessment has not been carried out.                               |

## 16 Other information

To the best of our knowledge, the information contained herein is accurate. However, neither Becton, Dickinson and Company or any of its subsidiaries assumes any liabilities whatsoever for the accuracy or completeness of the information contained herein. Final determination of suitability of any material is the sole responsibility of the user. All materials may present unknown hazards and should be used with caution. Although certain hazards are described (Contd. on page 11)



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|   | (Contd. of page |
|---|-----------------|
| herein, we can not guarantee that these are the only hazards that exist.            |                 |
| Department issuing SDS:   |                 |
| Environmental, Health & Safety  |                 |
|   |                 |
| Created by Michael J. Spinazzola  |                 |
| Contact: Technical Service Representative   |                 |
| Date of preparation / last revision 05/10/2016 / -                                  |                 |
| Abbreviations and acronyms:   |                 |
| IMDG: International Maritime Code for Dangerous Goods                               |                 |
| DOT: US Department of Transportation  |                 |
| IATA: International Air Transport Association                                       |                 |
| ACGIH: American Conference of Governmental Industrial Hygienists                    |                 |
| EINECS: European Inventory of Existing Commercial Chemical Substances               |                 |
| ELINCS: European List of Notified Chemical Substances                               |                 |
| CAS: Chemical Abstracts Service (division of the American Chemical Society)         |                 |
| NFPA: National Fire Protection Association (USA)                                    |                 |
| HMIS: Hazardous Materials Identification System (USA)                               |                 |
| LC50: Lethal concentration, 50 percent  |                 |
| LD50: Lethal dose, 50 percent   |                 |
| PBT: Persistent, Bioaccumulative and Toxic  |                 |
| vPvB: very Persistent and very Bioaccumulative                                      |                 |
| OSHA: Occupational Safety & Health  |                 |
| TLV: Threshold Limit Value  |                 |
| PEL: Permissible Exposure Limit<br>REL: Recommended Exposure Limit                  |                 |
| BEI: Biological Exposure Limit  |                 |
| ADR: Accord européen sur le transport des marchandises dangereuses par Route (Europ | ean Aareement   |
| concerning the International Carriage of Dangerous Goods by Road)                   | ean Agreement   |
| Flam. Liq. 4: Flammable liquids – Category 4  |                 |
| Acute Tox. 3: Acute toxicity – Category 3   |                 |
| Acute Tox. 4: Acute toxicity – Category 4   |                 |
| Skin Corr. 1B: Skin corrosion/irritation – Category 1B                              |                 |
| Skin Irrit. 2: Skin corrosion/irritation – Category 2                               |                 |
| Eye Dam. 1: Serious eye damage/eye irritation – Category 1                          |                 |
| Eye Irrit. 2A: Serious eye damage/eye irritation – Category 2A                      |                 |
| Muta. 2: Germ cell mutagenicity – Category 2  |                 |
| STOT SE 3: Specific target organ toxicity (single exposure) – Category 3            |                 |
| STOT RE 2: Specific target organ toxicity (repeated exposure) – Category 2          |                 |