

SECTION 1: Identification of the substance/mixture and of the company/undertaking

1.1. Product identifier

Product form : Mixture
Trade name : Lacto-phenol cotton blue
Product code : 6701-01, 6701-04, 6701-16, 6701-30

1.2. Relevant identified uses of the substance or mixture and uses advised against

1.2.1. Relevant identified uses

Main use category : Laboratory use

1.2.2. Uses advised against

No additional information available

1.3. Supplier

Astral Diagnostics Inc.
Logan Township NJ 08085 - United States
T +1 856 224 0900
800-441-0366 Technical Service; Monday-Friday: 8:00AM-5:00 PM, Eastern US Time
www.ethosbiosciences.com

1.4. Emergency telephone number

Emergency number : 800-424-9300 CHEMTREC (USA) -- 24 Hours/Day, 7 Days/Week

SECTION 2: Hazards identification

2.1. Classification of the substance or mixture

GHS-US Classification

Acute toxicity (oral), Category 4	H302
Acute toxicity (inhalation), Category 4	H332
Skin corrosion/irritation, Category 1B	H314
Serious eye damage, Category 1	H318
Germ cell mutagenicity, Category 2	H341

Full text of H statements : see section 16

2.2. GHS Label elements, including precautionary statements

GHS-US Labeling

Hazard pictograms (GHS-US) :

	
GHS05	GHS06

Signal word (GHS-US) : Danger

Hazard statements (GHS-US) :

- H302+H332 - Harmful if swallowed or if inhaled
- H314 - Causes severe skin burns and eye damage
- H318 - Causes serious eye damage
- H341 - Suspected of causing genetic defects
- H411 - Toxic to aquatic life with long lasting effects

Precautionary statements (GHS-US) :

- P260 - Do not breathe dust/fume/gas/mist/vapors/spray
- P203 - Obtain, read and follow all safety instructions before use.
- P264+P265 - Wash hands, forearms and face thoroughly after handling. Do not touch eyes.
- P270 - Do not eat, drink or smoke when using this product.
- P273 - Avoid release to the environment.
- P280 - Wear protective gloves/protective clothing/eye protection/face protection.
- P301+P310 - IF SWALLOWED: immediately call a POISON CENTER or doctor/physician
- P391 - Collect spillage.
- P501 - Dispose of contents/container to hazardous or special waste collection point, in accordance with local, regional, national and/or international regulation

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2.3. Other hazards

No additional information available

SECTION 3: Composition/information on ingredients

3.1. Substances

Not applicable

3.2. Mixtures

Name	Product identifier	%	GHS-US classification
Phenol (solid)	(CAS No) 108-95-2	19	Acute Tox. 3 (Oral), H301; Acute Tox. 3 (Dermal), H311; Acute Tox. 3 (Inhalation), H331; Acute Tox. 3 (Inhalation:dust,mist), H331; Skin Corr. 1B, H314; Muta. 2, H341; STOT RE 2, H373
Lactic acid	(CAS No) 79-33-4	20	Skin Irrit. 2, H315 Eye Dam. 1, H318
Aniline blue	(CAS No) 28631-66-5	<1	Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3; H315, H319, H335
Glycerine (glycerol)	(CAS No) 56-81-5	40	Not classified.
Water	(CAS-No.) 7732-18-5	Balance	Not classified.

Full text of H-statements: see section 16

SECTION 4: First aid measures

4.1. Description of first aid measures

First-aid measures general	: Get medical advice/attention if you feel unwell.
First-aid measures after inhalation	: Remove person to fresh air and keep comfortable for breathing. When symptoms occur: go into open air and ventilate suspected area. If you feel unwell, seek medical advice. Assure fresh air breathing. Allow the victim to rest.
First-aid measures after skin contact	: Wash skin with plenty of water. Take off contaminated clothing. If skin irritation occurs: Get medical advice/attention.
First-aid measures after eye contact	: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Consult an eye specialist. Get medical advice/attention.
First-aid measures after ingestion	: Rinse mouth. Induce vomiting if victim completely conscious/alert. Call a physician immediately.

4.2. Most important symptoms and effects, both acute and delayed

No additional information available

4.3. Indication of any immediate medical attention and special treatment needed

No additional information available

SECTION 5: Firefighting measures

5.1. Extinguishing media

Suitable extinguishing media : Water spray. Foam. Dry powder. Carbon dioxide. Sand.

5.2. Special hazards arising from the substance or mixture

Fire hazard : Combustible liquid.

5.3. Advice for firefighters

Precautionary measures fire	: Stop leak if safe to do so.
Protection during firefighting	: Do not attempt to take action without suitable protective equipment.
Other information	: Combustible.

SECTION 6: Accidental release measures

6.1. Personal precautions, protective equipment and emergency procedures

General measures : Do not inhale vapor. Remove ignition sources.

6.1.1. For non-emergency personnel

Emergency procedures : Do not breathe vapors.

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6.1.2. For emergency responders

- Protective equipment : Use personal protective equipment as required. Do not attempt to take action without suitable protective equipment.
- Emergency procedures : Ventilate area.

6.2. Environmental precautions

Avoid release to the environment. Prevent entry to sewers and public waters.

6.3. Methods and material for containment and cleaning up

- For containment : Collect spillage.
- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. This material and its container must be disposed of in a safe way, and as per local legislation. Absorb spillage to prevent material damage. Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible. Collect spillage.
- Other information : Dispose of materials or solid residues at an authorized site.

6.4. Reference to other sections

No additional information available

SECTION 7: Handling and storage

7.1. Precautions for safe handling

- Precautions for safe handling : Ensure good ventilation of the work station. Do not eat, drink or smoke when using this product.
- Hygiene measures : Do not eat, drink or smoke when using this product. Always wash hands after handling the product. Remove contaminated clothes.

7.2. Conditions for safe storage, including any incompatibilities

- Incompatible materials : Heat sources. Sources of ignition. Direct sunlight.
- Storage area : Store away from heat. Store in a well-ventilated place.
- Special rules on packaging : Keep only in original container. Store in a closed container.

7.3. Specific end use(s)

Laboratory chemicals.

SECTION 8: Exposure controls/personal protection

8.1. Control parameters

Lacto-Phenol Cotton Blue	
No additional information available	
Phenol (108-95-2)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA	19 mg/m ³
ACGIH OEL TWA [ppm]	5 ppm
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	19 mg/m ³
OSHA PEL (TWA) [2]	5 ppm
USA - IDLH - Occupational Exposure Limits	
IDLH [ppm]	250 ppm
USA - NIOSH - Occupational Exposure Limits	
NIOSH REL (TWA)	19 mg/m ³
NIOSH REL TWA [ppm]	5 ppm
NIOSH REL (Ceiling)	60 mg/m ³ 15 min.
NIOSH REL C [ppm]	15.6 ppm 15 min.
Water (7732-18-5)	
No additional information available	

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Glycerine (56-81-5)	
USA - ACGIH - Occupational Exposure Limits	
ACGIH OEL TWA*	19 mg/m ³
ACGIH OEL TWA [ppm]*	5 ppm
USA - OSHA - Occupational Exposure Limits	
OSHA PEL (TWA) [1]	5 mg/m ³ (respirable)
OSHA PEL (TWA) [2]	15 mg/m ³ (total dust)

*Withdrawn in 2013 due to insufficient data relevant to human occupational exposure.

8.2. Exposure controls

Appropriate engineering controls:

Ensure good ventilation of the work station. Do not inhale vapor.

Hand protection:

protective gloves

Eye protection:

Safety glasses

Skin and body protection:

Wear suitable protective clothing

Other information:

Do not eat, drink or smoke during use. Wash hands with water as a precaution.

SECTION 9: Physical and chemical properties

9.1. Information on basic physical and chemical properties

Physical state	: Liquid
Appearance	: Liquid
Color	: Blue
Odor	: characteristic
Odor threshold	: No data available
pH	: 2.3
Relative evaporation rate (butylacetate=1)	: No data available
Melting point	: No data available
Freezing point	: No data available
Boiling point	: No data available
Flash point	: No data available
Auto-ignition temperature	: No data available
Decomposition temperature	: No data available
Flammability (solid, gas)	: No data available
Vapor pressure	: No data available
Relative vapor density at 20 °C	: No data available
Relative density	: 1.172
Solubility	: Miscible in water
Log Pow	: No data available
Viscosity, kinematic	: No data available
Viscosity, dynamic	: No data available
Explosive properties	: No data available
Oxidizing properties	: No data available
Explosive limits	: No data available

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9.2. Other information

No additional information available

SECTION 10: Stability and reactivity

10.1. Reactivity

No additional information available

10.2. Chemical stability

Stable under normal conditions.

10.3. Possibility of hazardous reactions

No additional information available

10.4. Conditions to avoid

Oxidizing agents. Halogens.

10.5. Incompatible materials

No additional information available

10.6. Hazardous decomposition products

No additional information available

SECTION 11: Toxicological information

11.1. Information on toxicological effects

Acute toxicity	: Oral: Harmful if swallowed. Dermal: Harmful in contact with skin.
Skin corrosion/irritation	: Causes severe skin burns and eye damage. pH: 2.3
Serious eye damage/irritation	: Serious eye damage, Category 1 pH: 2.3
Respiratory or skin sensitisation	: Not classified
Germ cell mutagenicity	: Not classified
Carcinogenicity	: Not classified
Reproductive toxicity	: Not classified
STOT-single exposure	: Not classified
STOT-repeated exposure	: Not classified
Aspiration hazard	: Not classified

SECTION 12: Ecological information

12.1. Toxicity

Ecology - general : Toxic to aquatic life. Toxic to soil organisms.

Lacto-Phenol Cotton Blue	
LC50 fish 1	14 - 25 mg/l leuciscus Idus

12.2. Persistence and degradability

Lacto-Phenol Cotton Blue	
Persistence and degradability	Product is biodegradable.
Biochemical oxygen demand (BOD)	1,4 - 1,68 g O ₂ /g substance
ThOD	2,26 - 2,4 g O ₂ /g substance

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12.3. Bioaccumulative potential

No additional information available

12.4. Mobility in soil

No additional information available

12.5. Results of PBT and vPvB assessment

No additional information available

12.6. Other adverse effects

Other adverse effects : Marine pollutant.

SECTION 13: Disposal considerations

13.1. Waste treatment methods

Regional legislation (waste) : Disposal must be done according to official regulations.

SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Transport document description : UN2821 Phenol solutions, 6.1, III
UN-No.(DOT) : UN2821
Proper Shipping Name (DOT) : Phenol solutions
Class (DOT) : 6.1 - Class 6.1 - Poisonous materials 49 CFR 173.132
Packing group (DOT) : III - Minor Danger
Hazard labels (DOT) : 6.1 - Poison



DOT Packaging Non Bulk (49 CFR 173.xxx) : 203
DOT Packaging Bulk (49 CFR 173.xxx) : 241
DOT Special Provisions (49 CFR 172.102) : IB3 - Authorized IBCs: Metal (31A, 31B and 31N); Rigid plastics (31H1 and 31H2); Composite (31HZ1 and 31HA2, 31HB2, 31HN2, 31HD2 and 31HH2). Additional Requirement: Only liquids with a vapor pressure less than or equal to 110 kPa at 50 C (1.1 bar at 122 F), or 130 kPa at 55 C (1.3 bar at 131 F) are authorized, except for UN2672 (also see Special Provision IP8 in Table 2 for UN2672).
T4 - 2.65 178.274(d)(2) Normal..... 178.275(d)(3)
TP1 - The maximum degree of filling must not exceed the degree of filling determined by the following: Degree of filling = $97 / 1 + a (tr - tf)$ Where: tr is the maximum mean bulk temperature during transport, and tf is the temperature in degrees celsius of the liquid during filling.

DOT Packaging Exceptions (49 CFR 173.xxx) : 153
DOT Quantity Limitations Passenger aircraft/rail (49 CFR 173.27) : 60 L
DOT Quantity Limitations Cargo aircraft only (49 CFR 175.75) : 220 L
DOT Vessel Stowage Location : A - The material may be stowed "on deck" or "under deck" on a cargo vessel and on a passenger vessel.

Emergency Response Guide (ERG) Number : 153
Other information : No supplementary information available.

Dangerous for the environment : No
Marine pollutant : No
Other information : No supplementary information available

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Transportation of Dangerous Goods

Transport by sea

Not regulated

Air transport

Not regulated

SECTION 15: Regulatory information

15.1. US Federal regulations

Phenol, solid (108-95-2)	
Not listed on the United States TSCA (Toxic Substances Control Act) inventory Subject to reporting requirements of United States SARA Section 313	
CERCLA RQ	1000 lb
RQ (Reportable quantity, section 304 of EPA's List of Lists)	1000 lb
SARA Section 302 Threshold Planning Quantity (TPQ)	10000 lb 500lb if the substance is solid in powder form with particle size less than 100 microns, or is in solution or molten form

15.2. International regulations

CANADA

Phenol (108-95-2)
Listed on the Canadian DSL (Domestic Substances List)

Water (7732-18-5)
Listed on the Canadian DSL (Domestic Substances List)

EU-Regulations

No additional information available

15.3. US State regulations

California Proposition 65 - This product does not contain any substances known to the state of California to cause cancer, developmental and/or reproductive harm

SECTION 16: Other information

Initial date : 11 DEC 2013
Revision date : 10 NOV 2022

Full text of H-statements

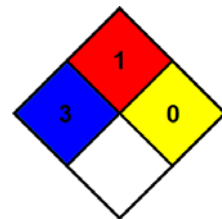
H302	Harmful if swallowed
H314	Causes severe skin burns and eye damage
H318	Causes serious eye damage
H332	Harmful if inhaled
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NFPA health hazard : 3 - Materials that, under emergency conditions, can cause serious or permanent injury.
NFPA fire hazard : 1 - Materials that must be preheated before ignition can occur.
NFPA reactivity : 0 - Material that in themselves are normally stable, even under fire conditions.



Hazard Rating
Health : 3 Serious Hazard - Major injury likely unless prompt action is taken and medical treatment is given
Flammability : 1 Slight Hazard - Materials that must be preheated before ignition will occur. Includes liquids, solids and semi solids having a flash point above 200 F. (Class IIIB)
Physical : 0 Minimal Hazard - Materials that are normally stable, even under fire conditions, and will NOT react with water, polymerize, decompose, condense, or self-react. Non-Explosives.
Personal protection : J - Splash goggles, Gloves, Synthetic apron, Dust & vapor respirator

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SDS US (GHS HazCom 2012)

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