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

1.1 Product identifier

1.2 Product Name: **Phenol Red Lactose Broth**

1.3 A broth medium that is recommended for lactose fermentation studies and detection of coliform bacteria.

1.4 Details of the supplier of the safety data sheet

- Name of Manufacturer: Arena BioScien, SEA
- Address of Manufacturer: Block 5, Street 9 Ismailia free zone. Ismailia- Egypt
- Telephone: +202 21813500/ +201113102057
- Email: admin@arenabioscientific.com

SECTION 2 Hazards identification

2.1 Classification of the substance or mixture

Classification (29 CFR 1910.1200)

- Classification (REGULATION (EC) No 1272/2008) [CLP/GHS]
  Not classified as hazardous for supply
- Classification (67/548/EEC, 1999/45/EC) (OSHA 29 CFR 1910.1200)
  Not classified as hazardous for supply

2.2 Label elements

- Signal Word: None
- Symbols: None
- Hazard phrases: None
- Precautionary Phrases:
  Keep container tightly closed.
  Do not breathe dust.
  Avoid contact with eyes, skin, or clothing.

SECTION 3 Composition/information on ingredients

Peptone	10 gm
Beef Extract	1gm
Sodium Chloride	5gm
Lactose	5gm
Phenol Red	0.018gm

SECTION 4 First aid measures

4.1 Description of first aid measures

General notes:

Do not leave affected person unattended. Remove victim out of the danger area. Keep affected person warm, still and covered. Take off immediately all contaminated clothing. In all cases of doubt, or when symptoms persist, seek medical advice. In case of unconsciousness place person in the recovery position. Never give anything by mouth.

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

Following inhalation:

None under normal conditions. Dust of the product, if present, may cause respiratory irritation after excessive inhalation exposure. .

Following skin contact:

None under normal conditions. Dust may cause irritation in skin folds or by contact in combination with tight clothing.

Following eye contact:

None under normal conditions. Dust from this product may cause eye irritation.

Following ingestion:

None under normal conditions.

4.3 Indication of any immediate medical attention and special treatment needed

None

SECTION 5 Fire-fighting measures

5.1 Suitable Extinguishing Agents:

CO2, ABC multipurpose dry chemical or water spray. Fight large fires with water spray or alcohol resistant foam.

5.2 Special hazards arising from the substance or mixture:

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Special Protective Equipment and Advice for firefighters:

Wear self-contained breathing apparatus for firefighting, if necessary.

SECTION 6 Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures:

No special precautionary health measures should be needed under anticipated conditions of use. Wear appropriate personal protective equipment (PPE) as regulated by your laboratory protocol including lab coat, safety glasses, and gloves.

6.2 Methods and materials for containment and cleaning up:

Clean up affected area. Avoid generation of dusts. Soak up with inert absorbent material and dispose contaminated material as waste according to section 13

6.3 Environmental precautions:

Avoid release to the environment.

SECTION 7 Handling and storage

7.1 Precautions for safe handling: Avoid inhaling dust. Avoid contact with eyes, skin and clothing.

7.2 Conditions for safe storage, including any incompatibilities: Store in a cool, dry place. Keep container tightly closed. Recommended storage temperature, check product label.

7.3 Specific end uses: Apart from the uses mentioned in section 1.2 no other specific uses are stipulated. Storage: Keep container tightly closed. Store at 10°C-30°C and the prepared medium at 2°C-8°C.

SECTION 8 Exposure controls/personal protection

8.1 Control parameters

- Exposure above the recommended occupational exposure limit (OEL) may cause adverse health effects

8.2 Exposure controls

- Respiratory protection necessary at: Dust formation. Particulate filter device (EN 143). P1 (filters at least 80 % of airborne particles, colour code: White).
- Wear protective gloves. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and standard EN 374.
- Wear safety glasses approved to standard for ANSI Z87 or EN 166.
- Wear suitable protective clothing in accordance with good chemical hygiene practices.
-


Gloves


Safety Glasses


Lab Coat

SECTION 9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

Appearance : Red coloured, clear solution without any precipitate.
Odour :No data available..
Odour threshold : Not available
Melting point : Not available
Freezing point : Not applicable Boiling point : Not available
Flammability : Non flammable.
Lower explosion limit : Not applicable
Upper explosion limit : Not applicable
Flash point : Not applicable
Auto-ignition temperature : Not applicable
Decomposition temperature : Not available
pH :7.4±0.2 at 25°C
solution : Not available
Viscosity, kinematic : Not applicable
Solubility : Soluble in water
Partition coefficient n-octanol/water (Log Kow) : Not available
Vapour pressure : Not available
Vapour pressure at 50°C : Not available
Density : Not available
Relative density : Not available
Relative vapour density at 20°C : Not applicable
Particle size: Not available

SECTION 10 Stability and reactivity

10.1 Reactivity
- Stable under recommended transport or storage condition.

10.2 Chemical stability
- Stable under normal conditions.

10.3 Conditions to avoid
- Avoid exposure to heat and moisture to maintain product stability.

10.4 Incompatible materials
- No additional information available

10.5 Hazardous decomposition products:
- No decomposition if used according to the specification

.SECTION 11 Toxicological information

11.1 Information on toxicological effects
- Acute toxicity: Low order of acute toxicity.

Oral LD50 (rat) > 2000 mg/kg.
Dermal LD50 (rabbit) > 2000 mg/kg.
Inhalation LC50 (rat) > 20 mg/litre/4h.
- Contact with skin: No data available
- Contact with eyes: No data available
- Ingestion: No data available
- Inhalation: No data available
- Carcinogenicity: No evidence of carcinogenic effects.
- Mutagenicity: No evidence of mutagenic effects.
- Teratogenicity: No information available

SECTION 12 Ecological information

12.1 Toxicity
- No data available

12.2 Persistence and degradability
- Readily Biodegradable

12.3 Bioaccumulation Potential
- No information available

12.4 Mobility in soil
- No information available

12.5 Results of PBT and vPvB assessment
This preparation contains no substance considered to be persistent, bioaccumulating nor toxic (PBT).

12.6 Other Adverse Effects
- To the best of our knowledge, the properties of this material have not been fully evaluated.
- On available data, substance is not harmful to the environment.

SECTION 13 Disposal considerations

13.1 Waste treatment methods

Product: Dispose of waste in accordance with current legislation and local regulations as per established safety procedures. The user's attention is drawn to the possible existence of regional or national regulations regarding disposal.

Contaminated packaging: Handle uncleaned containers like the product itself.

Recommendation: Ensure decontamination of the prepared material and contaminated containers by autoclaving and / or incineration before discarding.

SECTION 14 Transport information

14.1 UN Number
- Not classified as hazardous for transport

14.2 UN Proper Shipping Name
- Not applicable

14.3 Transport hazard class(es)
- Not applicable

14.4 Packing group
- Not applicable

14.5 Environmental hazards
- Not Classified

14.6 Special precautions for user
- Not Classified

14.7 Transport in bulk according to Annex II of MARPOL 73/78 and the IBC code
- Not Classified

14.8 Domestic Surface Transport (US DOT)
- Proper Shipping Name: Not applicable
- DOT UN No.: Not applicable
- DOT Hazard Class: Not applicable
- DOT Packing Group: Not applicable

14.9 International Road/Rail (ADR/RID)
- Proper Shipping Name: Not applicable
- ADR UN No.: Not applicable
- ADR Hazard Class: Not applicable
- ADR Packing Group: Not applicable
- Tunnel Code: Not applicable

14.10 Ocean/Sea (IMO/IMDG)
- Proper Shipping Name: Not applicable
- IMDG UN No.: Not applicable
- IMDG Hazard Class: Not applicable
- IMDG Packing Group: Not applicable

14.11 Air (ICAO/IATA)
- Proper Shipping Name: Not applicable
- ICAO Un No.: Not applicable
- ICAO Hazard Class: Not applicable
- ICAO Packing Group: Not applicable

SECTION 15 Regulatory information

15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture
(This Safety Data Sheet is provided in compliance with the EC Directive 1907/2006 - 453/2010, WHMIS 2015 requirements as specified in the Hazardous Products Act (HPA) and the HazardousProducts Regulations (HPR), and with the OSHA Hazard Communication Standard 29 CFR 1910.1200.

- Regulation (EC) No. 1272/2008 on the classification, labelling and packaging of substances and mixtures (CLP Regulation) applies in Europe.

SECTION 16 Other information

Date of Preparation: January 2024
Revision: Rev. 0
Replaces: New issue
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Safety Data Sheet