

Safety Data Sheet

Phenol Red Dextrose Broth, Dehydrated



Section 1 Product Description

Product Name: Phenol Red Dextrose Broth, Dehydrated
Recommended Use: Science education applications
Synonyms: Phenol Red Dextrose Broth Dehydrated, Phenol Red Glucose Broth Dehydrated
Distributor: Carolina Biological Supply Company
2700 York Road, Burlington, NC 27215
1-800-227-1150
Chemical Information: 800-227-1150 (8am-5pm (ET) M-F)
Chemtrec: 800-424-9300 (Transportation Spill Response 24 hours)

Section 2 Hazard Identification

Classification of the chemical in accordance with paragraph (d) of §1910.1200;

GHS Classification:

Other Safety Precautions: Not a dangerous substance according to GHS classification criteria.
No known OSHA hazards.
May cause eye irritation.
May cause irritation to skin.
May cause gastrointestinal discomfort.
May cause irritation to respiratory tract.

Acute Toxicity Oral Contains 50 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Dermal Contains 75 % of the mixture consists of ingredient(s) of unknown toxicity
Acute Toxicity Inhalation Dust/Mist Contains 75 % of the mixture consists of ingredient(s) of unknown toxicity

Section 3 Composition / Information on Ingredients

| <u>Chemical Name</u> | <u>CAS #</u> | <u>%</u> |
|-----------------------------|--------------|----------|
| Pancreatic Digest of Casein | N/A | 49.9 |
| Sodium Chloride | 7647-14-5 | 25 |
| D-glucose, Anhydrous | 50-99-7 | 25 |
| Phenol Red, Sodium Salt | 34487-61-1 | 0.1 |

Section 4 First Aid Measures

Emergency and First Aid Procedures

Inhalation: In case of accident by inhalation: remove casualty to fresh air and keep at rest.
Eyes: In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
Skin Contact: After contact with skin, wash immediately with plenty of water.
Ingestion: If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label.

Section 5 Firefighting Procedures

Extinguishing Media: Use alcohol foam, carbon dioxide, or water spray when fighting fires involving this material.
Fire Fighting Methods and Protection: Firefighters should wear full protective equipment and NIOSH approved self-contained breathing apparatus.
Fire and/or Explosion Hazards: N/A
Hazardous Combustion Products: Carbon dioxide, Carbon monoxide

Section 6 Spill or Leak Procedures

Safety Data Sheet

Steps to Take in Case Material Is Released or Spilled:

No adverse health affects expected from the clean-up of spilled material.
No health affects expected from the clean-up of this material if contact can be avoided.
Follow personal protective equipment recommendations found in Section 8 of this (M)SDS
No adverse health affects expected from the clean-up of spilled material. Follow personal protective equipment recommendations found in Section 8 of this (M)SDS. Avoid the generation of dusts during clean-up.
No special spill clean-up considerations. Collect and discard in regular trash. Avoid Dusting.
May become explosive when dispersed in air.

Section 7 Handling and Storage

Handling: Avoid creating and inhaling dust.
Storage: Keep container tightly closed in a cool, well-ventilated place.
Storage Code: Green - general chemical storage

Section 8 Protection Information

| Chemical Name | ACGIH | | OSHA PEL | |
|-------------------------|-------|--------|----------|--------|
| | (TWA) | (STEL) | (TWA) | (STEL) |
| Sodium Chloride | N/A | N/A | N/A | N/A |
| D-glucose, Anhydrous | N/A | N/A | N/A | N/A |
| Phenol Red, Sodium Salt | N/A | N/A | N/A | N/A |

Control Parameters

Engineering Measures: No exposure limits exist for the constituents of this product. General room ventilation might be required to maintain operator comfort under normal conditions of use.

Personal Protective Equipment (PPE): Lab coat, apron, eye wash, safety shower.

Respiratory Protection: No respiratory protection required under normal conditions of use. Wear a NIOSH approved respirator if levels above the exposure limits are possible.

Eye Protection: Wear chemical splash goggles when handling this product. Have an eye wash station available.

Skin Protection: Avoid skin contact by wearing chemically resistant gloves, an apron and other protective equipment depending upon conditions of use. Inspect gloves for chemical break-through and replace at regular intervals. Clean protective equipment regularly. Wash hands and other exposed areas with mild soap and water before eating, drinking, and when leaving work.

Gloves: Natural rubber, Neoprene, PVC or equivalent.

Section 9 Physical Data

Formula: See Section 3
Molecular Weight: N/A
Appearance: White to off-white Red Colorless to White Powder
Odor: Mild Sweet
Odor Threshold: No data available
pH: 7.4 ± 0.2
Melting Point: 146 C
Boiling Point: 1461 C
Flash Point: No data available
Flammable Limits in Air: N/A

Vapor Pressure: N/A
Evaporation Rate (BuAc=1): N/A
Vapor Density (Air=1): N/A
Specific Gravity: N/A
Solubility in Water: Soluble
Log Pow (calculated): No data available
Autoignition Temperature: No data available
Decomposition Temperature: No data available
Viscosity: No data available
Percent Volatile by Volume: N/A

Section 10 Reactivity Data

Reactivity: No data available
Chemical Stability: Stable under normal conditions.
Conditions to Avoid: Dusting. Exposure to light. Heat and sources of ignition.
Incompatible Materials: Strong oxidizing agents, Bromine Trifluoride, Lithium
Hazardous Polymerization: Will not occur

Section 11 Toxicity Data

Routes of Entry: Inhalation and ingestion.
Symptoms (Acute): N/A
Delayed Effects: No data available

Safety Data Sheet

Acute Toxicity:

| Chemical Name | CAS Number | Oral LD50 | Dermal LD50 | Inhalation LC50 |
|-------------------------|------------|--|-------------|-----------------|
| Sodium Chloride | 7647-14-5 | Oral LD50 Mouse 4000 mg/kg Oral LD50 Rat 3000 mg/kg | | |
| D-glucose, Anhydrous | 50-99-7 | Oral LD50 Rat 25800 mg/kg | | |
| Phenol Red, Sodium Salt | 34487-61-1 | | | |

Carcinogenicity:

| Chemical Name | CAS Number | IARC | NTP | OSHA |
|-------------------------|------------|------------|------------|------------|
| Sodium Chloride | 7647-14-5 | Not listed | Not listed | Not listed |
| D-glucose, Anhydrous | 50-99-7 | Not listed | Not listed | Not listed |
| Phenol Red, Sodium Salt | 34487-61-1 | Not listed | Not listed | Not listed |

Chronic Effects:

| | |
|------------------------------|---|
| Mutagenicity: | No evidence of a mutagenic effect. |
| Teratogenicity: | No evidence of a teratogenic effect (birth defect). |
| Sensitization: | No evidence of a sensitization effect. |
| Reproductive: | No evidence of negative reproductive effects. |
| Target Organ Effects: | |
| Acute: | See Section 2 |
| Chronic: | N/A |

Section 12 Ecological Data

| | |
|-------------------------------|---|
| Overview: | This material is not expected to be harmful to the ecology. |
| Mobility: | No data |
| Persistence: | Dissolved into water, Biodegradation |
| Bioaccumulation: | No data |
| Degradability: | No data |
| Other Adverse Effects: | No data |

| Chemical Name | CAS Number | Eco Toxicity |
|----------------------|------------|--|
| Sodium Chloride | 7647-14-5 | 96 HR LC50 LEPOMIS MACROCHIRUS 12946 MG/L [STATIC] 48 HR EC50 DAPHNIA MAGNA 1000 MG/L |
| D-glucose, Anhydrous | 50-99-7 | |

Section 13 Disposal Information

| | |
|--------------------------------|---|
| Disposal Methods: | Dispose in accordance with all applicable Federal, State and Local regulations. Always contact a permitted waste disposer (TSD) to assure compliance. |
| Waste Disposal Code(s): | Not Determined |

Section 14 Transport Information

| | |
|--|---|
| Ground - DOT Proper Shipping Name: Not Regulated for Transport | Air - IATA Proper Shipping Name: Not regulated for air transport by IATA. |
|--|---|

Section 15 Regulatory Information

TSCA Status: All components in this product are on the TSCA Inventory.

| Chemical Name | CAS Number | § 313 Name | § 304 RQ | CERCLA RQ | § 302 TPQ | CAA 112(2) TQ |
|-------------------------|------------|------------|----------|-----------|-----------|---------------|
| Sodium Chloride | 7647-14-5 | No | No | No | No | No |
| D-glucose, Anhydrous | 50-99-7 | No | No | No | No | No |
| Phenol Red, Sodium Salt | 34487-61-1 | No | No | No | No | No |

Safety Data Sheet

Section 16

Additional Information

Revised: 09/09/2015

Replaces: 07/31/2015

Printed: 10-29-2015

The information provided in this (Material) Safety Data Sheet represents a compilation of data drawn directly from various sources available to us. Carolina Biological Supply makes no representation or guarantee as to the suitability of this information to a particular application of the substance covered in the (Material) Safety Data Sheet.

Glossary

| | | | |
|--------|---|------|---|
| ACGIH | American Conference of Governmental Industrial Hygienists | NTP | National Toxicology Program |
| CAS | Chemical Abstract Service Number | OSHA | Occupational Safety and Health Administration |
| CERCLA | Comprehensive Environmental Response, Compensation, and Liability Act | PEL | Permissible Exposure Limit |
| DOT | U.S. Department of Transportation | ppm | Parts per million |
| IARC | International Agency for Research on Cancer | RCRA | Resource Conservation and Recovery Act |
| N/A | Not Available | SARA | Superfund Amendments and Reauthorization Act |
| | | TLV | Threshold Limit Value |
| | | TSCA | Toxic Substances Control Act |
| | | IDLH | Immediately dangerous to life and health |