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MATERIAL SAFETY DATA SHEET

LB Broth

NPFA		HMIS		Personal Protective Equipment										
		<table><tr><td>HEALTH</td><td>0</td></tr><tr><td>FLAMMABILITY</td><td>0</td></tr><tr><td>REACTIVITY</td><td>0</td></tr><tr><td>PPE</td><td></td></tr></table>		HEALTH	0	FLAMMABILITY	0	REACTIVITY	0	PPE		  		
HEALTH	0													
FLAMMABILITY	0													
REACTIVITY	0													
PPE														

In Case of Emergency: Call ChemTrac (24 hr): 800-424-9300, 703-527-3887 Call (330)425-2522

1. Product Identification

Product Name Luria Broth Base
Product Codes: 11-120, 11-121

2. Composition/Information on Ingredients

Ingredient	CAS No
Luria Broth Base	None

3. Hazards Identification

HMIS RATING
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
NFPA RATING
HEALTH: 1
FLAMMABILITY: 0
REACTIVITY: 0
For additional information on toxicity, please refer to Section 11.

4. First Aid Measures

ORAL EXPOSURE
If swallowed, wash out mouth with water provided person is conscious. Call a physician.
INHALATION EXPOSURE
If inhaled, remove to fresh air. If breathing becomes difficult, call a physician.
DERMAL EXPOSURE
In case of contact, immediately wash skin with soap and copious amounts of water.
EYE EXPOSURE
In case of contact with eyes, flush with copious amounts of water for at least 15 minutes. Assure adequate flushing by separating the eyelids with fingers. Call a physician.

5. Fire Fighting Measures

FLASH POINT

N/A

AUTOIGNITION TEMP

N/A

FLAMMABILITY

Product is nonflammable

EXTINGUISHING MEDIA

Suitable: Water spray. Carbon dioxide, dry chemical powder, or appropriate foam.

FIREFIGHTING

Protective Equipment: Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Specific Hazard(s): N/A

6. Accidental Release Measures

PROCEDURE(S) OF PERSONAL PRECAUTION(S)

Exercise appropriate precautions to minimize direct contact with skin or eyes and prevent inhalation of dust.

METHODS FOR CLEANING UP

Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.

7. Handling and Storage

HANDLING

User Exposure: Prevent formation of dust.

INFORMATION ABOUT PROTECTION AGAINST EXPLOSIVES AND FIRES:

No special measures required.

STORAGE

Less than 30 degrees C

Store in a cool, dry condition in well sealed receptacle.

Class according to regulations on flammable liquids: Void

8. Exposure Controls/Personal Protection

Components with limit values that require monitoring at the workplace;

This product does not contain any relevant quantities of materials with critical values that have to be monitored at the workplace.

ENGINEERING CONTROLS

Safety shower and eye bath. Mechanical exhaust required.

PERSONAL PROTECTIVE EQUIPMENT

Respiratory: Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).

Respiratory protection is not required. Where protection from nuisance levels of dusts are desired, use type N95 (US) or type P1 (EN 143) dust masks.

Hand: Protective gloves.

Eye: Chemical safety goggles.

GENERAL HYGIENE MEASURES

Wash thoroughly after handling.

BODY PROTECTION: Protective work clothing (lab coat)

9. Physical and Chemical Properties

Appearance Physical State: Solid

Property

pH N/A

BP/BP Range N/A

MP/MP Range N/A

Freezing Point N/A

Vapor Pressure N/A

Vapor Density N/A

Saturated Vapor Conc. N/A

SG/Density N/A

Bulk Density N/A

Odor Threshold N/A

Volatile% N/A

VOC Content N/A

Water Content N/A

Solvent Content N/A

Evaporation Rate N/A

Viscosity N/A

Surface Tension N/A

Partition Coefficient N/A

Decomposition Temp. N/A

Flash Point N/A

Explosion Limits N/A

Flammability N/A

Autoignition Temp N/A

Refractive Index N/A

Optical Rotation N/A
Miscellaneous Data N/A
Solubility: In water: 35.7 g/100g at 0 degrees C
N/A = not available

10. Stability and Reactivity

STABILITY

Stable: Stable.

Materials to Avoid: Reacts with acids, alkalis, oxidizing agents, Lithium, and Bromine trifluoride

HAZARDOUS DECOMPOSITION PRODUCTS

Hazardous Decomposition Products: Nature of decomposition products

When heated to above 801 degrees C emits toxic fumes of chloride and sodium oxide.

HAZARDOUS POLYMERIZATION

Hazardous Polymerization: Will not occur

CONDITIONS TO AVOID: Incompatible materials

11. Toxicological Information

ROUTE OF EXPOSURE

Skin Contact: May cause skin irritation.

Skin Absorption: May be harmful if absorbed through the skin.

Eye Contact: May cause eye irritation.

Inhalation: Material may be irritating to mucous membranes and upper respiratory tract. May be harmful if inhaled.

Ingestion: May be harmful if swallowed.

SIGNS AND SYMPTOMS OF EXPOSURE

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

CARCINOGENICITY: No

OSHA REGULATED: No

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE:

No sensitizing effects known. If large doses can cause vomiting, diarrhea, and prostration.

12. Ecological Information

General Notes: Water Hazard Class 0

Generally nothazardous for water.

13. Disposal Considerations

APPROPRIATE METHOD OF DISPOSAL OF SUBSTANCE OR PREPARATION

Contact a licensed professional waste disposal service to dispose of this material. Dissolve or mix the material with a combustible solvent and burn in a chemical incinerator equipped with an afterburner and scrubber. Observe all federal, state, and local environmental regulations. Smaller quantities can be disposed of with household waste disposal must be made according to official Federal, State and Local Regulations.

Recommended Cleansing Agent: Water if Necessary with cleansing agents.

14. Transport Information

DOT

Proper Shipping Name: None

Non-Hazardous for Transport: This substance is considered to be non-hazardous for transport.

IATA

Non-Hazardous for Air Transport: Non-hazardous for air

15. Regulatory Information

UNITED STATES REGULATORY INFORMATION

SARA LISTED: No

FEDERAL REGULATORY INFORMATION: The substance is not subject to classification according to the sources of literature known to us. Observe the general safety regulations when handling chemicals. The product is not subject to identification regulations according to directives on hazardous materials. Water hazard class 0. Generally not hazardous for water.

State Regulatory Information: N/A

DSL: No

NDSL: No

16. Other Information

DISCLAIMER:

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