

MATERIAL SAFETY DATA SHEET**Section 1: Company Identification and Product information****Product Name: Listeria Fraser Broth Base****Product Code No.:B1414****Manufacturer's Name:**

BIOMARK LABORATORIES

135/1, DALVI WADI, DHAIRI,

NARHE NANDED ROAD

Pune - 411 041. INDIA

Tel. No. : 91 02024380877/24380026/8459755093**E-mail:** biomarklabs@gmail.com**Date of revision:** August 2020**Section 2: Composition/Information on Ingredients****Composition****Ingredients Grams/Litre**

Proteose Peptone	5.00
Tryptone	5.00
Yeast extract	5.00
Meat Extract B	5.00
Sodium chloride	20.00
Disodium hydrogen phosphate	9.50
Potassium Dihydrogen phosphate	1.35
*Esculin	1.00
*Lithium Chloride	3.00
*Nalidixic acid	0.020
*Acriflavin hydrochloride (Trypaflavin)	0.025

* Harmful / Irritantmaterial

Hazardous Components	CAS-No.	Hazard Symbol	Risk Phrases	Safety Phrases
Lithium Chloride	7447-41-8	Xn (Harmful)	R 22-36/37/38	S 26-36/37/39
Esculin	531-75-9	Xn (Harmful)	R 20-21-22	--
Nalidixic acid	389-08-2	Xn (Harmful)	R 40-42/43	S 22-36/37-45
Acridin hydrochloride (Trypaflavin)	8063-24-9	Xi (Irritant)	R36/37/38	S 26-36

Section 3: Health Hazards Identification

Refer Section 2 and 15.

Section 4: First Aid Measures**General Information:** No special measures required.**Ingestion:** If swallowed, seek medical attention if symptoms occur. Show physician product label or MSDS.

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Inhalation: If inhaled, supply fresh air or oxygen. Seek medical attention if breathing becomes labored or difficult

Eye Contact: Rinse opened eye for at least 15 minutes under running water, lifting lower and up eyelids occasionally. Seek medical attention.

Skin Contact: Remove contaminated clothing. Immediately wash with plenty of soap and water for at least 15 minutes. Wash clothing before reuse. Seek medical attention if irritation develops.

Section 5: Fire Fighting Measures

Use Carbon dioxide, ABC multipurpose dry chemical, or water spray. Fight larger fires with water spray or alcohol resistant foam. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.

Section 6: Accidental Release Measures

Personal Precautions: Wear suitable protective clothing. Remove contaminated exhaustion at the workplace.

Environmental Precautions: Prevent dispersion of material. Wipe up with damp sponge or mop.

Clean-up Methods: Avoid prolonged or repeated exposure. Absorb material, ventilate area, and wash spill site after material has been cleaned up. Avoid inhalation, contact with eyes and skin. Prevent formation of dust.

Section 7: Handling and Storage

Handling: Avoid inhaling dust. Avoid contact with eyes, skin and clothing. Refer to Section 8

Storage: Store at 2-8°C in well-sealed containers.

Section 8: Exposure Controls/ Personal Protection

Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Mechanical exhaust required.

Section 9: Physical and Chemical Properties

Appearance: Homogeneous Free Flowing powder

Colour: Cream to light yellow

pH: 7.2 ± 0.2 at 25°C

Section 10: Stability and Reactivity

Stability: Stable under recommended storage and handling conditions

Conditions to avoid: Exposure to sunlight and moisture

Hazardous polymerization will not occur

Section 11: Toxicological Information

LD/LC50 values that are relevant:LD50 ORL-RAT: 526 mg/kg – Lithium Chloride

LD50: Not available for Esculin

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Carcinogenicity: Not listed.

Irritant: Irritant to eyes, skin, and mucous membranes.

Sensitization: No sensitizing effects known.

Subacute to chronic toxicity: Target organs: nervous system, respiratory system, muscle and kidneys.

Additional toxicological information: Irritant.

Section 12: Ecological Information

Ecotoxicity Tests: Generally not hazardous to water. No specific data available.

Section 13: Disposal Considerations

Disposal consideration: Non- hazardous waste. Dispose of according to all federal, state and local applicable regulations.

Container information: Containers should be cleaned by appropriate methods and then reused or disposed of by landfill or incineration as applicable.

Section 14: Transport Information

DOT Regulations: Not Regulated
Not classified.

Section 15: Regulatory Information

Risk Phrases:

R 22, Harmful if swallowed.

R 36/37/38, Irritating to eyes, respiratory system and skin.

R 20, Harmful by inhalation.

R 21, Harmful in contact with skin.

R40, Limited evidence of a carcinogenic effect.

R42/43, May cause sensitization by inhalation and skin contact.

Safety Phrases:

S22 Do not breathe dust.

S 26, In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

S 36/37/39, Wear suitable protective clothing, gloves and eye/face protection.

S36, Wear suitable protective clothing.

S36/37 Wear suitable protective clothing and gloves.

S45 In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).

Section 16: Other Information

Information contained herein is believed to be accurate and is offered in good faith for the user's consideration and investigation. No warranty is expressed or implied regarding the completeness or accuracy of this information. Users of this material should satisfy themselves by independent investigation of current scientific or medical information that this material may be safely handled.