

**MATERIAL SAFETY DATA SHEET****Section 1: Company Identification and Product information****Product Name: Fraser Broth****Product Code No.:B1334****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**

<b>Ingredients</b>	<b>Grams/Litre</b>
Casein enzymichydrolysate	5.00
Proteose peptone	5.00
Yeast extract	5.00
Meat extract	5.00
Sodium chloride	20.00
*Lithium chloride	3.00
Disodium hydrogen phosphate	12.00
Potassium dihydrogen phosphate	1.35
*Esculin	1.00
*Ferric ammonium citrate	0.50

\* Harmful/Irritant material

<b>Hazardous Components</b>	<b>CAS-No.</b>	<b>Hazard Symbol</b>	<b>Risk Phrases</b>	<b>Safety Phrases</b>
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	--
Ferric Ammonium Citrate	1185-57-5	Xi (Irritant)	R 36/37/38	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.**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.

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**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 in cool, dry conditions below 30°C in well-sealed containers and protected from direct sunlight and moisture.

### **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 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

**Carcinogenicity:** Not listed.

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

**Sensitization:** No sensitizing effects known.

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**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.

R20, Harmful by inhalation.

R21, Harmful in contact with skin.

**Safety Phrases:**

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.

### **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.