

## MATERIAL SAFETY DATA SHEET

### Section 1: Company Identification and Product information

**Product Name: Bile Esculin Azide Broth**

**Product Code No.:B425A**

**Manufacturer's Name:**

BIOMARK LABORATORIES

135/1, DALVI WADI, DHAIRI,

NARHE NANDED ROAD

Pune – 411 041. INDIA

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### Section 2: Composition/Information on Ingredients

#### Composition

| Ingredients                 | Grams/Litre |
|-----------------------------|-------------|
| Pancreatic digest of Casein | 17.00       |
| Proteose peptone            | 3.00        |
| Yeast extract               | 5.00        |
| Oxgall                      | 10.00       |
| Sodium chloride             | 5.00        |
| *Esculin                    | 1.00        |
| *Ferric ammonium citrate    | 0.50        |
| *Sodium azide               | 0.15        |
| Sodium citrate              | 1.00        |

\*Toxic/Harmful/Irritant material

| Hazardous Component     | CAS-No.    | Hazard Symbol | Risk Phrases  | Safety Phrases |
|-------------------------|------------|---------------|---------------|----------------|
| Sodium Azide            | 26628-22-8 | Toxic         | R 28-32-50/53 | S 28-45-60-61  |
| Ferric Ammonium Citrate | 1185-57-5  | Xi (Irritant) | R 36/37/38    | S 26-36        |
| Esculin                 | 531-75-9   | Xn (Harmful)  | R 20-21-22    | ----           |

### Section 3: Health Hazards Identification

Refer Section 2 and 15.

### Section 4: First Aid Measures

**General Information:** Symptoms of poisoning may even occur after several hours; therefore provide medical observations for at least 48 hours after the accident.

**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.

**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.

## **MATERIAL SAFETY DATA SHEET**

### **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:** Light to medium yellow

**pH:** 7.1 ± 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

Contact with acidic solutions and metal compounds over time may form potentially explosive metal azides. Should any of this material be introduced into a sanitary sewer system, flush with copious amounts of water.

### **Section 11: Toxicological Information**

**LD/LC50 values that are relevant:**

LD50: ORL-RAT, 27 mg/kg, Sodium Azide (26628-22-8)

**Carcinogenicity:** Not listed.

**Eye:** Produces irritation.

**Inhalation:** Irritant if inhaled, coughing possible.

**Chronic: Target organs:** Cardiovascular system, respiratory system, central nervous system, eyes, kidneys and skin. Prolonged or repeated skin contact may cause dermatitis.

## **MATERIAL SAFETY DATA SHEET**

**Additional toxicological information:** This product has a TDLo of 118 mg/kg (Or-human) based upon Sodium Azide content. Classified as Harmful, Irritant.

### **Section 12: Ecological Information**

**Ecotoxicity Tests:** Water Hazard Class 1. Slightly hazardous for water. The ecological effects have not been thoroughly investigated, but currently none have been identified.

### **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 28, Very toxic if swallowed.

R 32, Contact with acids liberates very toxic gas

R 50/53, Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

R20, Harmful by inhalation.

R21, Harmful in contact with skin.

R 22, Harmful if swallowed

R36/37/38, Irritating to eyes, respiratory system and skin.

**Safety Phrases:**

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

S 28, After contact with skin, wash immediately with plenty of water.

S36, Wear suitable protective clothing.

S 45, In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

S 60, This material and its container must be disposed of as hazardous waste

S61, Avoid release to the environment. Refer to special instructions/Safety data sheets

### **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.