

## **MATERIAL SAFETY DATA SHEET**

### **Section 1: Company Identification and Product information**

**Product Name: Vitamin B<sub>12</sub> Assay Medium**

**Product Code No.:BS016**

**Manufacturer's Name:**

BIOMARK LABORATORIES  
135/1, DALVI WADI, DHAIRI,  
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### **Section 2: Composition/Information on Ingredients**

#### **Composition**

#### **Ingredients Grams/Litre**

Casein acid hydrolysate 15.00  
Dextrose 40.00  
Asparagine 0.20  
Sodium acetate 20.00  
Ascorbic acid 4.00  
L-Cystine 0.40  
DL-Tryptophan 0.40  
Adenine sulphate 0.02  
\*Guanine hydrochloride 0.02  
Uracil 0.02  
Xanthine 0.02  
Riboflavin (Vitamin B2) 0.001  
Thiamine hydrochloride 0.001  
Biotin 0.00001  
\*Niacin 0.002  
\*p-Amino benzoic acid 0.002  
Calcium pantothenate 0.001  
Pyridoxine hydrochloride 0.004  
\*Pyridoxal hydrochloride 0.004  
Pyridoxamine hydrochloride 0.0008  
Folic acid 0.0002  
Monopotassium phosphate 1.00  
Dipotassium phosphate 1.00  
Magnesium sulphate 0.40  
Sodium chloride 0.02  
\*Ferrous sulphate 0.02  
\*Manganese sulphate 0.02  
Polysorbate 80 2.00

\* Harmful / Irritant material

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| Hazardous Components    | CAS-No.    | Hazard Symbol | Risk Phrases     | Safety Phrases |
|-------------------------|------------|---------------|------------------|----------------|
| Niacin                  | 59-67-6    | Xi (Irritant) | R36/37/38        | S 26-36        |
| Guanine hydrochloride   | 635-39-2   | Xi (Irritant) | R 36/37/38       | S 26-36        |
| Ferrous sulphate        | 7782-63-0  | Xn (Harmful)  | R 22-36/37/38    | S 26-36        |
| Manganese sulphate      | 10034-96-5 | Xn(Harmful)   | R 48/20/22       | S22            |
| Pyridoxal hydrochloride | 65-22-5    | Xn (Harmful)  | R 22             | -              |
| p-Amino benzoic acid    | 150-13-0   | Xn(Harmful)   | R 22-36/37/38-43 | 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.

**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.

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### **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:** 6.1± 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

Hazardous polymerization will not occur.

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

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

**Carcinogenicity:** Not listed.

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

**Ecotoxicity Tests:** 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 48/20/22, Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed

R 22, Harmful if swallowed

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

R 43, May cause sensitization by skin contact

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**Safety Phrases:**

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

S 36, Wear suitable protective clothing

S 22, Do not breathe dust

**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.