

MATERIAL SAFETY DATA SHEET**Section 1: Company Identification and Product information****Product Name: B12 ASSAY AGAR (USING E. COLI MUTANT CULTURE) (HARRISON ET AL. MEDIUM)****Product Code No.:BS017****Manufacturer's Name:**BIOMARK LABORATORIES
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Pune - 411 041. INDIA**Tel. No.:**91 8459755093**E-mail:** biomarklabs@gmail.com**Date of revision:** July 2021**Section 2: Composition/Information on Ingredients****Composition****Ingredients Grams/Litre**

A complete dehydrated medium for microbiological assay of Vitamin B12 contains all essential nutritive except Vitamin B12 for the growth of E. coli mutant 113-3 Davis ATCC11105. The addition of B12 in specified increasing concentration gives a growth response, which can be measured with zone reader.

Hazardous Component	CAS-No.	Hazard Symbol	Risk Phrases	Safety Phrases
Ferrous sulphate	7782-63-0	Xn (Harmful)	R 22-36/37/38	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.**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.

MATERIAL SAFETY DATA SHEET

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 yellow

pH: 7.0 ± 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

MATERIAL SAFETY DATA SHEET

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

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.