

MATERIAL SAFETY DATA SHEET

Section 1: Company Identification and Product information

Product Name: Dubos Broth Base

Product code: B176

Manufacturer's Name:

BIOMARK LABORATORIES

135/1, DALVI WADI, DHAIRI,

NARHE NANDED ROAD

Pune – 411 041. INDIA

Tel. No. : 91 8459755093

E-mail: biomarklabs@gmail.com

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Section 2: Composition/Information on Ingredients

Composition

Ingredients Grams/Litre

Casein enzymic hydrolysate	0.50
L-Asparagine	2.00
Polysorbate 80	0.20
Monopotassium phosphate	1.00
Disodium phosphate	2.50
*Ferric ammonium citrate	0.05
Magnesium sulphate	0.01
*Calcium chloride	0.0005
*Zinc sulphate	0.0001
*Copper sulphate	0.0001

* Harmful / Irritant material

Hazardous Components	CAS-No.	Hazard Symbol	Risk Phrases	Safety Phrases
Ferric Ammonium Citrate	1185-57-5	Xi (Irritant)	R 36/37/38	S 26-36
Calcium chloride	10043-52-4	Xi (Irritant)	R 22	S 22-24
Zinc sulphate	7446-19-7	Xi (Irritant)	R 36/38-50/53	S 22-25-60-61
Copper sulphate	7758-98-7	Xn(Harmful)	R 22-36/38-50/53	S 22-60-61

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

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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 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 yellow to beige

pH: 6.6 ± 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

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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 22, Harmful if swallowed

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

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

R36/38, Irritating to eyes and skin.

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

S22, Do not breathe dust.

S24. Avoid contact with skin.

S25, Avoid contact with eyes.

S6 Keep under ... (inert gas to be specified by the manufacturer).

S60, 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.