

MATERIAL SAFETY DATA SHEET

Section 1: Company Identification and Product information

Product Name: Lysine Medium

Product Code No.:B598

Manufacturer's Name:

BIOMARK LABORATORIES

135/1, DALVI WADI, DHAIRI,

NARHE NANDED ROAD

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Section 2: Composition/Information on Ingredients

Composition

Ingredients Grams/Litre

Dextrose	44.50
Monopotassium phosphate	1.78
Magnesium sulphate	0.89
*Calcium chloride	0.178
Sodium chloride	0.089
Adenine	0.00178
DL-methionine	0.000891
L-histidine	0.000891
DL-tryptophan	0.000891
*Boric acid	0.0000089
*Zinc sulphate	0.0000356
Amonium molybdate	0.0000178
*Manganese sulphate	0.0000356
*Ferrous sulphate	0.0002225
L-lysine	1.00
Inositol	0.02
Calcium pantothenate	0.002
Aneurine	0.0004
Pyridoxine	0.0004
*p-Amino benzoic acid	0.0002
*Nicotinic acid	0.0004
Riboflavin	0.0002
Biotin	0.000002
Folic acid	0.000001
Agar	17.80

* Irritant / Harmful / Dangerous for the environment material

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Hazardous Components	CAS-No.	Hazard Symbol	Risk Phrases	Safety Phrases
Calcium chloride	10043-52-4	Xi (Irritant)	R 22	S 22-24
Boric acid	10043-35-3	Xn(Harmful)	R 22-36/37/38	S 22-36/37
Ferrous sulphate	7782-63-0	Xn(Harmful)	R 22-36/37/38	S26-36
Zinc sulphate	7446-19-7	Xi (Irritant)	R 36/38-50/53	S 22-25-60-61
p-Amino benzoic acid	150-13-0	Xn(Harmful)	R 22-36/37/38-43	S 26-36
Manganese sulphate	10034-96-5	Xn(Harmful)	R 48/20/22	S 22
Nicotinic acid	59-67-6	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.

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.

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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: Off white to white

pH: 5.0± 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

DOT Regulations: Not Regulated

Not classified.

Section 15: Regulatory Information

Risk Phrases:

R43, May cause sensitization by skin contact.

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 36/38, Irritating to eyes and skin.

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R50/53, Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Safety Phrases:

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

S25, Avoid contact with eyes.

S 36, Wear suitable protective clothing

S 36/37, Wear suitable protective clothing, gloves

S 22, Do not breathe dust

S 24, Avoid contact with skin

S60, This material and its container must be disposed of as hazardous waste.

S 61, Avoid release to the environment

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.