













MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
Product Name or Identity:DM1086-Lysine Medium Base			
Manufacturer's Name& Address	Micromaster Laboratories Private Limited Unit 38/39, Kalpataru Industrial Estate, Off Ghodbunder Road, Nr. 'R-Mall' Thane (W)-400607. M.S. INDIA.	Emergency Phone No.:	+91 22 25895505/25894681/2 5894760
Reference	According to Regulation (EC) No.1907/2006	Email:	micromaster@micromasterlab.com
Section 2. Composition / Information on Hazardous Ingredients			
Ingredients	Grams/Litre	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	Ammonium 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 (PABA)	0.0002
*Nicotinic acid	0.0004	Riboflavin	0.0002
Biotin	0.000002	Folic acid	0.000001
Agar	17.80		
Final pH (at 25°C) 5.0±0.2			
* Irritant / Harmful / Dangerous for the environment material			
	Calcium chloride CAS No. : 10043-52-4 R : 36 S : 22-24 RTECS : EV 9800000		
	Boric acid CAS No. : 10043-35-3 R : 22-36/37/38 S : 22-36/37 RTECS : ED 4550000		
Zinc sulphate CAS No. : 7446-19-7 R : 36/38-50/53 S : 22-25-60-61			

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		RTECS : ZH 5300000
	Ferrous sulphate CAS No. : 10028-22-5 R : 22 RTECS : NO 8500000	
	p-Amino benzoic acid CAS No. : 150-13-0 R : 22-36/37/38-43 S : 26-36 RTECS : DG 1400000	
	Nicotinic acid CAS No. : 59-67-6 R : 36/37/38 S : 26-36 RTECS : QT 0525000	
Section 3. Health Hazard Identification		
	Hazard : This symbol designates substances which may have an irritant effect on skin, eyes and respiratory organs. Caution : Do not breathe vapours and avoid contact with skin and eyes.	
	Hazard : Inhalation and ingestion of, or skin penetration by these substances is harmful to one's health. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage. Caution : Avoid contact with the human body, including inhalation of the vapours and in cases of malaise consult a doctor.	
	Hazard : Substances which are harmful to the aquatic (aquatic organisms, waters), as well as the non-aquatic environment (fauna, flora, atmosphere) or which have a detrimental effect at longer term. Caution : Avoid release to the environment.	
Section 4. First Aid Measures		
Description of first aid measures General advice Consult a physician. Show this safety data sheet to the doctor in attendance. If inhaled In case of swallowing, wash out mouth with water provided person is conscious. In case of skin contact flush with copious amounts of water for at least 15 minutes. Remove contaminated clothing and shoes Incase of eye contact Wash with copious amounts of water for at least 15 minutes. Assure adequate washing by separating the eyelids with fingers. In serious conditions, call a physician, show the container or label.		
Section 5. Fire and Explosion Hazard Data		
Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Special fire-fighting procedures. Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.		



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Advice for fire fighters Special fire-fighting procedures. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.
Section 6. Accidental Release Measures
Wear respirator, chemical safety goggles, rubber boots and heavy rubber gloves. Sweep up, place in a bag and hold for waste disposal. Avoid raising dust. Ventilate area and wash spill site after material pickup is complete.
Section 7. Handling and Storage
Handling - Refer to Section 8 Storage - Store below 30°C
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 powder Colour : Off white to cream
Section 10. Stability and Reactivity
Stability: Product is stable if stored as per the conditions specified under storage of Section No. 7. Product loses its potency/performance above 45°C. Conditions to avoid: Heat and light. Decomposition products: if product is decomposed toxic fumes of carbon monoxide and carbon dioxide may evolve. Hazardous polymerization will not occur.
Section 11. Toxicological Information
Acute Effects : May be harmful if swallowed. Exposure can cause : Stomach pains, vomiting, diarrhea. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. RTECS No. : NO 85 10000 BP 68250 00 For complete information RTECS may be referred.
Section 12. Ecological Information
Data not available
Section 13. Disposal Considerations
On completion of work all used or unusable preparations of this product and derivatives thereof are to be disposed off by autoclaving and/or by incineration. Dispose off waste in accordance with all applicable Federal, State and local laws.
Section 14. Transport Information
UN No. : Not applicable.
Section 15. Regulatory Information
Risk Phrases : Irritating to eyes

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Risk Phrases : Harmful if swallowed
 Risk Phrases : Irritating to eyes, respiratory system and skin
 Risk Phrases : Irritating to eyes and skin
 Risk Phrases : Very toxic to aquatic organisms, may cause long term adverse effects in the aquatic environment
 Risk Phrases : May cause sensitization by skin contact
 Safety Phrases : Do not breathe dust
 Safety Phrases : Avoid contact with skin
 Safety Phrases : Avoid contact with eyes
 Safety Phrases : Wear suitable protective clothing and gloves
 Safety Phrases : This material and its container must be disposed of as hazardous waste
 Safety Phrases : Avoid release to the environment, Refer to special instructions/ Safety data sheets
 Safety Phrases : In case of contact with eyes, rinse immediately with plenty of water and medical advice
 Safety Phrases : Wear suitable protective clothing



Significance of signs : This symbol designates substances which may have an irritant effect on skin, eyes and respiratory organs.



Significance of signs : Inhalation and ingestion of, or skin penetration by these substances is harmful to one's health. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.



Significance of signs : Substances which are harmful to the aquatic (aquatic organisms, waters), as well as the non-aquatic environment (fauna, flora, atmosphere) or which have a detrimental effect at longer term.

Section 16. Other Information

WARRANTY :

This document is believed to be correct, but does not purport to be all inclusive and shall be used only as a guide. The information in this document is based on the present state of our knowledge and is applicable to the product with regard to appropriate safety precautions. It does not represent any guarantee of the properties of the product. Micromaster Laboratories shall not be held liable for any damage resulting from handling or from contact with the above Product. These suggestions should not be confused with state, municipal or insurance requirements, and constitute no warranty.

DISCLAIMER:

For Laboratory use only. Not for drug, household or other uses.

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