



## MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
<b>Product Name or Identity:</b> DM1301- Lactic Acid Bacteria Selective Broth Base (Raka Ray No. 3 Broth Base)			
<b>Manufacturer's Name &amp; Address</b>	Micromaster Laboratories Private Limited Unit 38/39, Kalpataru Industrial Estate, Off Ghodbunder Road, Nr. 'R-Mall' Thane (W)-400607. M.S. INDIA.	<b>Emergency Phone No.:</b>	+91 22 25895505/25894681/2 5894760
<b>Reference:</b>	According to Regulation (EC) No.1907/2006	<b>Email:</b>	micromaster@micromasterlab.com
Section 2. Composition / Information on Hazardous Ingredients			
Ingredients	Grams/Litre	Ingredients	Grams/Litre
Casein enzymic hydrolysate	20.00	Liver extract	1.00
Yeast extract	5.00	Maltose	10.00
Fructose	5.0	Dextrose	5.0
*Betaine hydrochloride	2.0	L-Aspartic acid	2.5
*Manganese sulphate	0.42	Magnesium sulphate	0.98
*Diammonium citrate	2.0	Dipotassium phosphate	2.0
N-acetyl glucosamine	0.5	Potassium glutamate	2.5
Final pH (at 25°C) 5.4±0.2			
* Harmful / Irritant / Dangerous for Environment material			
	Betaine hydrochloride CAS No. : 590-46-5 R : 36 S : 22-26 RTECS : BP 31836000		
	Diammonium citrate CAS No. : 3012-65-5 R : 36/37/38 S : 26-36 RTECS : GE 7545000		
 	Manganese sulphate CAS No. : 10034-96-5 R : 48/20/22-51/53 S : 22-61 RTECS : OP 0893500		
Section 3. Health Hazard Identification			
	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 : This symbol designates substances which may have an irritant effect on skin, eyes and respiratory organs.			

# MATERIAL SAFETY DATA SHEET



Caution : Do not breathe vapours and avoid contact with skin and eyes.



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

#### In case 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.

#### 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 at 2 - 8°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 : Cream to beige

## 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.



## MATERIAL SAFETY DATA SHEET

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 :** Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment

**Risk Phrases :** Irritating to eyes

**Risk Phrases :** Harmful: danger of serious damage to health by prolonged exposure through inhalation and if swallowed

**Risk Phrases :** Irritating to eyes, respiratory system and skin

**Safety Phrases :** Do not breathe dust

**Safety Phrases :** In case of contact with eyes, rinse immediately with plenty of water and seek medical advice

**Safety Phrases :** Wear suitable protective clothing

**Safety Phrases :** Avoid release to the environment. Refer to special instructions/Safety data sheets



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



**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



## MATERIAL SAFETY DATA SHEET

---

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.

DM1301MSDS, QAD/FR/030, Rev.00/01.01.2018