MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
Product Name or Identity: DM1033 Basal Mineral Medium			
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 /25894760
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**
*Ammonium chloride	0.80	Dipotassium hydrogen phosphate	0.70
Magnesium sulphate. 7H2O	0.01	Disodium EDTA	9.20mg
*Ferric sulphate. 7H2O	7.00mg	Calcium sulphate. 2H2O	2.00mg
*Boric acid	0.10mg	*Zinc sulphate. 7H2O	0.10mg
*Manganese sulphate. 4H2O	0.02mg	Cobalt nitrate	0.01mg
*Sodium molybdate dihydrate	0.01mg	*Copper sulphate. 5H2O	0.50µg

Final pH (at 25°C) Auto pH

* Irritant / Harmful / Dangerous to the Environment material

Ammonium chloride
CAS No. : 12125-02-9
R : 22-36 S : 22
RTECS : BP 4550000

Ferric sulphate. 7H2O
CAS No. : 10028-22-5
R : 20/21/22-36/37/38 S : 22-26-36/37/39
RTECS : NO 8505000

Boric acid
CAS No. : 10043-35-3
R : 22-36/37/38 S : 26-36/37
RTECS : ED 4550000

Zinc sulphate. 7H2O
CAS No. : 7446-20-0
R : 36/38-50/53 S : 22-25-60-61
RTECS : ZH 5300000

Manganese sulphate. 4H2O
CAS No. : 7785-87-7
R : 48/20/22-51/53 S : 22-61
RTECS : OP 1050000

Sodium molybdate dihydrate
CAS No. : 10102-40-6
R : 36/37/38-52/53 S : 26-36-61

RTECS : QA 5085000

Copper sulphate. 5H2O
CAS No. : 7758-98-7
R : 22-36/38-50/53 S : 22-60-61
RTECS : GL 8900000

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
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 firefighters
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 : 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. : BP 4550000 NO 8505000 ED 4550000 ZH 5300000 OP 1050000
QA 5085000 GL 8900000
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 : Harmful if swallowed
Risk Phrases : Irritating to eyes
Risk Phrases : Harmful by inhalation, in contact with skin and if swallowed
Risk Phrases : Irritating to eyes, respiratory system and skin
Risk Phrases : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Risk Phrases : Harmful - danger of serious damage to health by prolonged exposure through inhalation and if swallowed
Risk Phrases : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment
Risk Phrases : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic

environment 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, gloves and eye/face protection
Safety Phrases : Avoid contact with skin
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

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.