



MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information






Product Name or Identity: DM289 WL Nutrient Broth			
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
Casein enzymic hydrolysate	5.00	Yeast extract	4.00
Dextrose	50.00	Monopotassium phosphate	0.55
*Potassium chloride	0.425	*Calcium chloride	0.125
Magnesium sulphate	0.125	*Ferric chloride	0.0025
*Manganese sulphate	0.0025	Bromo cresol green	0.022

Final pH (at 25°C) 5.5±0.2

* Irritant / Harmful / Dangerous to the Environment material

	Potassium chloride CAS No. : 7447-40-7 R : 36/37/38 RTECS : TS 8050000	S : 26-36
	Calcium chloride CAS No. : 10043-52-4 R : 36 RTECS : EV 9800000	S : 22-24
 	Manganese sulphate CAS No. : 7785-87-7 R : 48/20/22-51/53 RTECS : OP 1050000	S : 22-61
	Ferric chloride CAS No. : 7705-08-0 R : 22-34 RTECS : LJ 9100000	S : 26-27-36/37/39

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

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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.



Hazard : Living tissue as well as equipment are destroyed on contact with these chemicals.

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

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 selfcontained 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 : Light yellow to light green



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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, diarrhoea. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals.
RTECS No. : TS 8050000 EV 9800000 LJ 9100000 OP 1050000
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, respiratory system and skin.
Risk Phrases : Irritating to eyes.
Risk Phrases : Harmful if swallowed.
Risk Phrases : Causes burns.
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.
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 : Do not breathe dust.
Safety Phrases : Avoid contact with skin.
Safety Phrases : Take off immediately all contaminated clothing
Safety Phrases : Wear suitable protective clothing, gloves and eye/face protection
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.



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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.



Hazard : Living tissue as well as equipment are destroyed on contact with these chemicals.

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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