















# MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
<b>Product Name or Identity:</b> DM290 WL Differential Broth			
<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 /25894760
<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	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
*Actidione@ (Cycloheximide)	0.004		
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	
	Ferric chloride CAS No. : 7705-08-0 R : 22-34 RTECS : LJ 9100000	S : 26-27-36/37/39	
 	Manganese sulphate CAS No. : 10034-96-5 R : 48/20/22-51/53 RTECS : OP 0893500	S : 22-61	
 	Actidione@ (Cycloheximide) CAS No. : 66-81-9 R : 61-28.1-51/53-68 RTECS : MA 4375000	S : 53.1-45-61	
Section 3. Health Hazard Identification			

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 <small>IRITANT</small>	<p>Hazard : This symbol designates substances which may have an irritant effect on skin, eyes and respiratory organs.</p> <p>Caution : Do not breathe vapours and avoid contact with skin and eyes.</p>
 <small>HAZARDOUS</small>	<p>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.</p> <p>Caution : Avoid contact with the human body, including inhalation of the vapours and in cases Of malaise consult a doctor.</p>
 <small>Toxic</small>	<p>Hazard : The substances are very hazardous to health when breathed, swallowed or in contact with the skin and may even lead to death. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.</p> <p>Caution : Avoid contact with the human body, and immediately consult a doctor in cases of malaise.</p>
 <small>CORROSIVE</small>	<p>Hazard : Living tissue as well as equipment are destroyed on contact with these chemicals.</p> <p>Caution : Do not breathe vapours and avoid contact with skin, eyes and clothing.</p>
 <small>Environmentally Hazardous</small>	<p>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.</p> <p>Caution : Avoid release to the environment.</p>

## 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



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<b>Handling</b> - Refer to Section 8 <b>Storage</b> - Store below 30°C
<b>Section 8. Exposure Controls / Personal Protection</b>
Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Mechanical exhaust required.
<b>Section 9. Physical and Chemical Properties</b>
Appearance : Homogeneous powder Colour : Light yellow to light green
<b>Section 10. Stability and Reactivity</b>
<b>Stability</b> : Product is stable if stored as per the conditions specified under storage of Section No. 7. Product loses its potency/performance above 45°C. <b>Conditions to avoid</b> : Heat and light. <b>Decomposition products</b> : if product is decomposed toxic fumes of carbon monoxide and carbon dioxide may evolve. Hazardous polymerization will not occur.
<b>Section 11. Toxicological Information</b>
<b>Acute Effects</b> : May be harmful if swallowed. <b>Exposure can cause</b> : Stomach pains, vomiting, diarrhea. Prolonged or repeated exposure may cause allergic reactions in certain sensitive individuals. <b>RTECS No.</b> : TS 8050000 EV 9800000 LJ 9100000 OP 0893500 MA 4375000 For complete information RTECS may be referred.
<b>Section 12. Ecological Information</b>
Data not available
<b>Section 13. Disposal Considerations</b>
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.
<b>Section 14. Transport Information</b>
UN No. : Not applicable.
<b>Section 15. Regulatory Information</b>
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 Risk Phrases : May cause harm to unborn child Risk Phrases : Very toxic if swallowed Risk Phrases : Possible risks of irreversible effects Safety Phrases : In case of contact with eyes, rinse immediately with plenty of water and seek medical advice



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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 exposure-obtain special instructions before use

1. Restricted to professional users.

Safety Phrases : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible)

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.



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Significance of signs : These substances are very hazardous to health when breathed, swallowed or in contact with the skin and may even lead to death. Non-recurring, recurring or lengthy exposure to these substances may result in irreversible damage.



Significance of signs : Living tissue as well as equipment are destroyed on contact with these chemicals.



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### 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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