



















MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information			
Product Name or Identity: DM548-Inorganic Salt Medium (Modified Raggio's 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 25895505/25894681/2 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
*Calcium carbonate	3000.0	*Calcium chloride	446.00
*Potassium chloride	165.00	Monopotassium phosphate	200.00
Magnesium sulphate	700.00	Sodium sulphate	200.00
*Potassium iodide	0.75	*Iron (III) Chloride	2.50
*Boric acid	1.50	*Sodium molybdate	0.25
*Manganese sulphate	6.64	*Zinc sulphate	2.67
*Copper sulphate	0.07		
* Irritant / Harmful / Corrosive / Dangerous for the environment material			
	Calcium carbonate CAS No. : 471-34-1 R : 37/38-41 S : 26-39 RTECS : FF 9335000		
	Calcium chloride CAS No. : 10043-52-4 R : 36 S : 22-24 RTECS : EV 9800000		
	Potassium chloride CAS No. : 7447-40-7 R : 36/37/38 S : 26-36 RTECS : TS 8050000		
	Potassium iodide CAS No. : 7681-11-0 R : 42/43 S : 22-36/37-45 RTECS : TT 2975000		
 	Iron (III) Chloride CAS No. : 7705-08-0 R : 22-34 S : 22-26-27-36/37/39-45 RTECS : LJ 9100000		

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		Boric acid CAS No. : 10043-35-3 R : 22-36/37/38 S : 26-36/37 RTECS : ED 455000
		Sodium molybdate CAS No. : 10102-40-6 R : 36/37/38 S : 26-36 RTECS : QA 5085000
		Manganese sulphate CAS No. : 10034-96-5 R : 48/20/22-51/53 S : 22-61 RTECS : OP 0893500
		Zinc sulphate CAS No. : 7446-20-0 R : 36/38-50/53 S : 22-25-60-61 RTECS : ZH 5300000
		Copper sulphate CAS No. : 7758-98-7 R : 22-36/38-50/53 S : 22-60-61 RTECS : GL 8800000
Section 3. Health Hazard Identification		
	<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>	
	<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>	
	<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.		






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Section 5. Fire and Explosion Hazard Data
<p>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.</p> <p>Advice for firefighters Special fire-fighting procedures. Wear self-contained breathing apparatus and protective clothing to prevent contact with skin and eyes.</p>
Section 6. Accidental Release Measures
<p>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.</p>
Section 7. Handling and Storage
<p>Handling - Refer to Section 8 Storage - Store below 30°C</p>
Section 8. Exposure Controls / Personal Protection
<p>Wear appropriate NIOSH/MSHA-approved respirator, chemical-resistant gloves, safety goggles, other protective clothing. Mechanical exhaust required.</p>
Section 9. Physical and Chemical Properties
<p>Appearance : Homogeneous powder Colour : White (may have slightly greenish tinge)</p>
Section 10. Stability and Reactivity
<p>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.</p>
Section 11. Toxicological Information
<p>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.</p>
Section 12. Ecological Information
<p>Data not available</p>
Section 13. Disposal Considerations
<p>On completion of work all used or unusable preparations of this product and derivatives thereof are to be disposed of by autoclaving and/or by incineration. Dispose off waste in accordance with all applicable</p>



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Federal, State and local laws.
Section 14. Transport Information
UN No. : Not applicable.
Section 15. Regulatory Information
Risk Phrases : Irritating to respiratory system and skin Risk Phrases : Risk of serious damage to eyes Risk Phrases : Irritating to eyes Risk Phrases : Irritating to eyes, respiratory system and skin Risk Phrases : May cause sensitization by inhalation and skin contact 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 : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment Safety Phrases : Do not breathe dust Safety Phrases : Avoid contact with skin 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 : Wear suitable protective clothing and gloves Safety Phrases : In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible) Safety Phrases : Take off immediately all contaminated clothing Safety Phrases : Wear suitable protective clothing, gloves and eye/face protection Safety Phrases : Avoid contact with eyes 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



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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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