



MATERIAL SAFETY DATA SHEET

Section 1. Company Identification and Product Information

Product Name or Identity: DM269 Vitamin B12 Assay 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
Casein acid hydrolysate	15.00	Dextrose	40.00
Asparagine	0.20	Sodium acetate	20.00
Ascorbic acid	4.00	L-Cystine	0.40
DL-Tryptophan	0.40	Adenine sulphate	0.02
Guanine hydrochloride	0.02	Uracil	0.02
Xanthine	0.02	Riboflavin (Vitamin B2)	0.001
Thiamine hydrochloride	0.001	Biotin	0.00001
*Niacin	0.002	p-Amino benzoic acid	0.002
Calcium pantothenate	0.001	Pyridoxine hydrochloride	0.004
*Pyridoxal hydrochloride	0.004	Pyridoxamine hydrochloride	0.0008
Folic acid	0.0002	Monopotassium phosphate	1.00
Dipotassium phosphate	1.00	Magnesium sulphate	0.40
Sodium chloride	0.02	*Ferrous sulphate	0.02
*Manganese sulphate	0.02	Polysorbate 80	2.00

Final pH (at 25°C) 6.1±0.2

* Irritant / Harmful / Dangerous to the Environment material



Guanine hydrochloride
CAS No. : 635-39-2
R : 36/37/38
RTECS : MF 8400000





S : 26-36






Niacin
CAS No. : 59-67-6
R : 36/37/38
RTECS : QT 0525000

S : 26-36

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	<p>Pyridoxal hydrochloride CAS No. : 65-22-5 R : 22 RTECS : UV 1225000</p>
	<p>Ferrous sulphate CAS No. : 7782-63-0 R : 22-36/37/38 RTECS : NO 8510000</p> <p style="text-align: right;">S : 26-36</p>
 	<p>Manganese sulphate CAS No. : 10034-96-5 R : 48/20/22 RTECS : OP 0893500</p> <p style="text-align: right;">S : 22</p>

Section 3. Health Hazard Identification

	<p>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.</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. 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. Caution : Avoid release to the environment.</p>

Section 4. First Aid Measures

<p>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.</p>

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. Advice for firefighters Special fire-fighting procedures. Wear self contained breathing apparatus and protective clothing to prevent contact with skin and eyes.</p>
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Section 6. Accidental Release Measures



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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 to yellow

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. : RTECS No. : MF 8400000 QT 0525000 UV 1225000 NO 8510000

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 : Harmful if swallowed.

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

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



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	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 : 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.

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