MATERIAL SAFETY DATA SHEET



	Section 1. Co	mpany Identificati	on and Pro	duct Informa	tion	
Product Name or	Identity:DM719-	/east Nitrogen Bas	se w/o Am	ino Acids		
Manufacturer's Nameå Address	Micromaster Laboratories Private LimitedUnit 38/39, Kalpataru Industrial Estate, OffGhodbunder Road, Nr. 'R-Mall'Thane (W)-400607. M.S. INDIA.					
Reference	According to Regulation (EC) No. 1907/2006					nicromasterlab.com
	Section 2. Comp	osition / Informat	ion on Haz	ardous Ingred	dients	
Ingredients		Grams/Litre		Ingredients		Grams/Litre
*Ammonium sulphate		5.00	Monopotassium phosphate			1.00
Magnesium sulphate		0.50	Sodium	chloride	0.10	
*Calcium chloride		0.10	*Boric a	cid	0.0005	
*Copper sulphate		0.00004	*Potassi	ium iodide	0.0001	
*Ferric chloride		0.0002	*Mangar	*Manganese sulphate		0.0004
Sodium molybdate		0.0002	*Zinc su	Ilphate	0.0004	
Biotin		0.000002	Calcium	pantothenate	0.0004	
Folic acid		0.000002	Inositol	Inositol		0.002
*Niacin		0.0004	p-Amino	benzoic acid (0.0002	
Riboflavin (Vitamin B2)		0.0002	Pyridoxi	Pyridoxine hydrochloride		0.0004
Thiamine hydrochloride		0.0004				
Final pH (at 25°C)) 5.4 <u>+</u> 0.2					
* Irritant / Harm	ful / Corrosive / Da	ngerous for the env	viornment r	naterial		
Ammonium CAS No. : 7	783-20-2					
R : 36/3//. RTECS : BS	38 5 : 26-36 5 4500000					
Calcium chl	oride					
	.0043-52-4					
R : 36 S : 2 RTECS : EV						
Boric acid						
	10043-35-3					
	/37/38 5 : 26-36/3	7				
_	ED 4550000					
Copper sulphate CAS No. : 7758-98-7						
Address (Managing Tot.)	22-36/38-50/53 S	: 22-60-61				
	TECS : GL 8800000					
Potassium i	iodide					
CAS No. : 7						
R : 42/43 :	5 : 22-36/37-45					





	RTECS : TT 2975000
*	Ferric chloride
	CAS No. : 7705-08-0
	R : 22-34 5 : 22-26-27-36/37/39-45
-	RTECS : LJ 9100000
X	Manganese sulphate CAS No. : 10034-96-5
Name -	R : 48/20/22-51/53 5 : 22-61
	RTECS : OP 0893500
	Zinc sulphate
	CAS No. : 7446-20-0
PULLAN	R : 36/38-50/53 S : 22-25-60-61
	RTECS : ZH 5300000
X	Niacin
INDITANT	CAS No. : 59-67-6
	R : 36/37/38 S : 26-36
	RTECS : QT 0525000
	Section 3. Health Hazard Identification
X	Hazard : This symbol designates substances which may have an irritant effect on skin, eyes and
DULLAN	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.
1	Hazard : Living tissue as well as equipment are destroyed on contact with these chemicals.
2. đ	Caution : Do not breathe vapours and avoid contact with skin, eyes and clothing.
35	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
	ription of first aid measures
	ral advice
	ult a physician. Show this safety data sheet to the doctor in attendance. haled
	use of swallowing, wash out mouth with water provided person is conscious.
	ase of skin contact
	with copious amounts of water for at least 15 minutes. Remove contaminated clothingandshoes
	se of eye contact
	n with copious amounts of water for at least 15 minutes. Assure adequate washingby separating the
eyeli	ds with fingers. In serious conditions, call a physician, show the container or label.
	Section 5. Fire and Explosion Hazard Data
	nguishing media
	able extinguishing media
	water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Spec	ial fire-fighting procedures. Wear self-containedbreathing apparatus and protective clothing to





prevent contact with skin and eyes. Advice for fire-fighters 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 8°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 free flowing powder. Colour : White to 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. :NO 85 10000 BP 68250 00 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 disposedof by autoclaving and/or by incineration. Dispose of 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 : Irritating to eyes and skin



MATERIAL SAFETY DATA SHEET



arases : Avoid release to the environment. Refer to special instructions/Safety data sheets rases : Avoid contact with eyes phificance of signs : This symbol designates substances which may have an irritant effect on skin, es and respiratory organs. nificance of signs : Inhalation and ingestion of, or skin penetration by these substances is harmful one's health. Non-recurring, recurring or lengthy exposure to these substances may result in eversible damage. phificance of signs : Living tissue as well as equipment are destroyed on contact with these emicals. phificance of signs : Substances which are harmful to the aquatic (aquatic organisms, waters), as II as the non-aquatic environment (fauna, flora, atmosphere) or which have a detrimental effect at ger term. Section 16. Other Information
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abes wear surrable protective clothing, gloves and eyer face protection
rases : Wear suitable protective clothing, gloves and eye/face protection
rases : Wear suitable protective clothing and gloves
rases : Take of immediately all contaminated clothing
repossible)
rases : In case of accident or if you feel unwell, seek medical advice immediately (show the
rases : Do not breathe dust rases : Avoid contact with skin
rases : Wear suitable protective clothing
nt rases : In case of contact with eyes, rinse immediately with plenty of water and seek medical
Illowed ses : Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic
ses : Harmful : danger of serious damage to health by prolonged exposure through inhalation
ses : Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic ent.
ses : Causes burns
ses : May cause sensitization by inhalation and skin contact
ses : Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic ent

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.

DM719MSDS, QAD/FR/030, Rev.00

