



Name of the Product : Murashige & Skoog Medium w/ CaCl₂, Vitamins & Sucrose; w/o Agar										
Code No. : PT 1099										
Section 1 : Chemical Identification										
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Name of the Product : Murashige & Skoog Medium w/ CaCl ₂ , Vitamins & Sucrose; w/o Agar										
Produced by : Central Drug House Pvt. Ltd.										
Address : 7/28 Vardaan House, Darya Ganj, New Delhi (INDIA)										
Tel. No. : 00 91 11 49404040										
Section 2	Hazards Identification									
	2.1 Classification of the substance or mixture CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP] Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.									
	2.2 Label elements Labeling according to Regulation (EC) No.1272/2008 Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008 Signal word None									
	2.3 Other Hazards This substance/mixture contains no components considered to be either persistent, bioaccumulative and toxic (PBT), or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.									
Section 3	Composition/Information On Ingredients									
	3.1 Mixture									
	<table border="1"><thead><tr><th>Component</th><th>Classification</th><th>Concentration</th></tr></thead><tbody><tr><td>Potassium nitrate</td><td></td><td></td></tr><tr><td>CAS No. : 7757-79-1 EC No. : 231-818-8</td><td>As Per EC Regulation 1272/2008 Ox. Sol. 3 H272</td><td>>=4 - <=6%</td></tr></tbody></table>	Component	Classification	Concentration	Potassium nitrate			CAS No. : 7757-79-1 EC No. : 231-818-8	As Per EC Regulation 1272/2008 Ox. Sol. 3 H272	>=4 - <=6%
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Component	Classification	Concentration
Manganese sulphate		
CAS No. : 10034-96-5	As Per EC Regulation 1272/2008	>=0.03 - <=0.05%
EC No. : 232-089-9	STOT RE 2; Aquatic Chronic 2 H373; H411	
Index-No : 025-003-00-4		

Section 4	First - Aid Measures
4.1	Description of first aid measures <i>General advice</i> Show this safety data sheet to the doctor in attendance. Consult a physician. <i>If inhaled</i> If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. <i>In case of skin contact</i> Wash off with soap and plenty of water. Consult a physician. <i>In case of eye contact</i> Rinse immediately with plenty of water for at least 15 minutes. Consult a physician. <i>If swallowed</i> Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.
4.2	Most important symptoms and effects, both acute and delayed The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.
4.3	Indication of immediate medical attention and special treatment needed Treat symptomatically.
Section 5	Fire Fighting Measures
5.1	Extinguishing media Suitable extinguishing media Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. Unsuitable extinguishing media
5.2	Special hazards arising from the substance or mixture Magnesium oxides, Sulphur oxides, Sodium oxides, Iron oxides, Calcium Oxide, Cobalt oxides, Copper oxides, Manganese oxides,, Molybdenum oxides, Oxides of Phosphorus, Potassium oxides, Zinc oxides.
5.3	Precautions for fire-fighters Cool closed containers exposed to fire with water spray.
5.4	Further information Wear self-contained breathing apparatus for firefighting if necessary.
Section 6	Accidental Release Measures
6.1	Personal precautions, protective equipment and emergency procedures Use personnel protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal protection see section 8.
6.2	Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.
6.3	Methods and materials for containment and cleaning up Sweep up and shovel. Contain spillage, and then collect with an electrically protected vacuum cleaner or by wet-brushing and place in container for disposal according to local regulations (see section 13). Keep in suitable, closed containers for disposal. Keep in suitable, closed containers for disposal.



	<p>6.4 Reference to other sections For disposal see Section 13.</p>
Section 7	<p>Handling and Storage</p>
	<p>7.1 Precautions for safe handling Avoid formation of dust and aerosols. Use only in well ventilated areas. Wear protective gloves and eye/face protection. Keep away from heat, sparks and open flame.</p> <p>7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids Recommended Storage Temperature : On receipt store between 2-8°C</p> <p>7.3 Specific end uses Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.</p>
Section 8	<p>Exposure Controls / Personal Protection</p>
	<p>8.1 Control parameters</p> <p>8.2 Exposure controls</p> <p>Appropriate engineering controls Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</p> <p>Personal protective equipment</p> <p>Hygiene measure Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day.</p> <p>Eye/face protection Safety glasses with side-shields conforming to EN 166 Use equipment for eye protection tested and approved under appropriate government such as NIOSH (US) or EN 166(EU).</p> <p>Skin protection Handle with gloves. Gloves must be inspected prior to use. Use proper glove removal technique (without touching glove's outer surface) to avoid skin contact with this product. Dispose contaminated gloves after use in accordance with applicable laws and good laboratory practices. Wash and dry hands. The selected protective gloves have to satisfy the specifications of EU Directive 89/686/EEC and the standard EN 374 derived from it.</p> <p>Body protection Impervious clothing The type of protective equipment must be selected to the concentration and amount of dangerous substances, and to the specific work-place.</p> <p>Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use as a backup to engineering controls. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU)</p> <p>Environment exposure controls Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into the environment must be avoided.</p>
Section 9	<p>Physical and Chemical Properties</p>



	<p>9.1 Information on basic physical and chemical properties</p> <p>Appearance White to off-white, homogenous powder</p> <p>Odour No data available</p> <p>Odour Threshold No data available</p> <p>pH 3.5 – 4.5</p> <p>Melting/freezing point No data available</p> <p>Initial boiling point and boiling range No data available</p> <p>Flash point No data available</p> <p>Upper/lower flammability or explosive limits No data available</p> <p>Evaporation rate No data available</p> <p>Flammability (Solid, gas) No data available</p> <p>Vapour pressure No data available</p> <p>Relative density No data available</p> <p>Water Solubility Soluble in water</p> <p>Partition coefficient: n-octanol/water No data available</p> <p>Autoignition Temperature No data available</p> <p>Decomposition Temperature No data available</p> <p>Viscosity No data available</p> <p>Explosive properties No data available</p> <p>Oxidizing properties No data available</p> <p>Vapour density No data available</p> <p>Thermal decomposition No data available</p> <p>9.2 Other safety information</p> <p>No data available</p>
Section 10	<p>Stability and Reactivity</p> <p>10.1 Reactivity No data available</p> <p>10.2 Chemical stability Stable under recommended storage conditions.</p> <p>10.3 Possibility of hazardous reactions No data available</p> <p>10.4 Conditions to avoid No data available</p> <p>10.5 Incompatible materials No data available</p> <p>10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions - Nitrogen oxides(NOx), Sulphur oxides, Oxides of phosphorus,. Potassium oxides, Magnesium oxide, Cobalt/cobalt oxides, Calcium oxide, Copper oxides. Other Decomposition products not known.. In event of fire - refer section 5</p>
Section 11	<p>Toxicological Information</p>



	<p>11.1 Information on toxicological effects</p> <p>Acute toxicity No data available Remarks : No data available No data available</p> <p>Skin corrosion/irritation No data available</p> <p>Serious eye damage/eye irritation No data available</p> <p>Respiratory or skin sensitisation No data available</p> <p>Germ cell mutagenicity No data available</p> <p>Carcinogenicity IARC: No component of this product present at levels greater than or equal to 0.1% is identified as probable, possible or confirmed human carcinogen by IARC.</p> <p>Reproductive toxicity No data available</p> <p>Specific target organ toxicity - repeated exposure No data available</p> <p>Aspiration hazard No data available</p> <p>Additional Information RTECS : Not applicable</p>																		
Section 12	Ecological Information																		
	<p>12.1 Toxicity No data available</p> <p>12.2 Persistence and degradability No data available</p> <p>12.3 Bioaccumulative potential No data available</p> <p>12.4 Mobility in soil No data available</p> <p>12.5 PBT and vPvB assessment This preparation contains substances considered to be persistent, bioaccumulating or toxic (PBT) very persistent very bioaccumulative (vPvB) at levels of 0.1% or higher.</p> <p>12.6 Other adverse effects</p>																		
Section 13	Disposal Considerations																		
	<p>13.1 Waste treatments methods</p> <p>Product Dispose of as unused product.</p> <p>13.2 Contaminated packaging Burn in a chemical incinerator equipped with an afterburner and scrubber but exert extra care in igniting as this material is highly flammable. Contact a licenced professional waste disposal service to dispose off this material.</p>																		
Section 14	Transport Information																		
	<p>14.1 UN-No ADNR : ADR : IATA_C : IATA_P : IMDG : RID :</p> <p>14.2 UN proper shipping name</p> <table><tr><td>ADNR</td><td>:</td><td>No dangerous goods</td></tr><tr><td>ADR</td><td>:</td><td>No dangerous goods</td></tr><tr><td>IATA_C</td><td>:</td><td>No dangerous goods</td></tr><tr><td>IATA_P</td><td>:</td><td>No dangerous goods</td></tr><tr><td>IMDG</td><td>:</td><td>No dangerous goods</td></tr><tr><td>RID</td><td>:</td><td>No dangerous goods</td></tr></table> <p>14.3 Transport hazard class (es)</p>	ADNR	:	No dangerous goods	ADR	:	No dangerous goods	IATA_C	:	No dangerous goods	IATA_P	:	No dangerous goods	IMDG	:	No dangerous goods	RID	:	No dangerous goods
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Section 15	Regulatory Information																																
	<p>This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006</p> <p>15.1 Safety health and environment regulations/legislation specific for the substance or mixture</p> <p>15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out.</p>																																
Section 16	Other Information																																
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