



Name of the Product : <b>Murashige &amp; Skoog Medium w/ CaCl<sub>2</sub>, Vitamins, Sucrose &amp; Agar PT 1100</b>																
Code No.	<b>PT 1100</b>															
Section 1 : <b>Chemical Identification</b>																
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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	<b>Hazards Identification</b>															
2.1	<b>Classification of the substance or mixture</b> <b>CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]</b> Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.															
2.2	<b>Label elements</b> <b>Labeling according to Regulation (EC) No.1272/2008</b> Not a hazardous substance or mixture according to Regulation (EC) No. 1272/2008															
2.3	<b>Other Hazards</b> 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	<b>Composition/Information On Ingredients</b>															
3.1	<b>Mixture</b>															
<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</td><td><b>As Per EC Regulation 1272/2008</b></td><td>&gt;=3 - &lt;=6%</td></tr><tr><td>EC No. : 231-818-8</td><td>Ox. Sol. 3 H272</td><td></td></tr></tbody></table>		Component	Classification	Concentration	Potassium nitrate			CAS No. : 7757-79-1	<b>As Per EC Regulation 1272/2008</b>	>=3 - <=6%	EC No. : 231-818-8	Ox. Sol. 3 H272				
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Component	Classification	Concentration
Zinc sulphate, heptahydrate		
CAS No. : 7446-20-0	<b>As Per EC Regulation 1272/2008</b>	>=0.01 - <=0.03%
EC No. : 231-793-3	Acute Tox.oral 4; Eye Dam. 1; Aquatic	
Index-No : 030-006-00-9	Chronic 1 H302; H318; H410	

For the full text of the H-Statements and classification mentioned in this Section, see Section 16

Section 4	<b>First - Aid Measures</b>
	<p><b>4.1 Description of first aid measures</b> <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.</p> <p><b>4.2 Most important symptoms and effects, both acute and delayed</b> The most important known symptoms and effects are described in the labeling (see section 2.2) and/or in section 11.</p> <p><b>4.3 Indication of immediate medical attention and special treatment needed</b> No data available</p>
Section 5	<b>Fire Fighting Measures</b>
	<p><b>5.1 Extinguishing media</b> <b>Suitable extinguishing media</b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. <b>Unsuitable extinguishing media</b></p> <p><b>5.2 Special hazards arising from the substance or mixture</b> 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.</p> <p><b>5.3 Precautions for fire-fighters</b> Wear self contained breathing apparatus for fire fighting if necessary</p> <p><b>5.4 Further information</b> Use water spray to cool unopened containers.</p>
Section 6	<b>Accidental Release Measures</b>
	<p><b>6.1 Personal precautions, protective equipment and emergency procedures</b> 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.</p> <p><b>6.2 Environmental precautions</b> Prevent further leakage or spillage if safe to do so. Do not let product enter drains. Discharge into environment must be avoided.</p> <p><b>6.3 Methods and materials for containment and cleaning up</b> 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> <p><b>6.4 Reference to other sections</b> For disposal see Section 13.</p>



Section 7	<b>Handling and Storage</b>
	<p><b>7.1 Precautions for safe handling</b> Avoid contact with skin and eyes. Avoid formation of dust and aerosols. Avoid exposure Obtain special instructions before use. Provide appropriate exhaust ventilation at places where dust is formed. Keep away from heat and source of ignition No smoking. Keep away from heat, sparks and open flame. For precautions see section 2.2.</p> <p><b>7.2 Conditions for safe storage, including any incompatibilities</b> Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Solids <b>Recommended Storage Temperature</b> : On receipt store between 2-8°C</p> <p><b>7.3 Specific end uses</b> Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.</p>
Section 8	<b>Exposure Controls / Personal Protection</b>
	<p><b>8.1 Control parameters</b></p> <p><b>8.2 Exposure controls</b></p> <p><b>Appropriate engineering controls</b> Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks and at the end of workday.</p> <p><b>Personal protective equipment</b></p> <p><b>Hygiene measure</b> Handle in accordance with good industrial hygiene and safety practice. Wash hands before breaks and at the end of the work day.</p> <p><b>Eye/face protection</b> 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><b>Skin protection</b> 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><b>Body protection</b> 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><b>Respiratory protection</b> 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><b>Environment exposure controls</b> 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	<b>Physical and Chemical Properties</b>



	<p><b>9.1 Information on basic physical and chemical properties</b></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 4.9 - 5.9</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 after boiling in distilled 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><b>9.2 Other safety information</b></p> <p>No data available</p>
Section 10	<b>Stability and Reactivity</b>
	<p><b>10.1 Reactivity</b></p> <p>No data available</p> <p><b>10.2 Chemical stability</b></p> <p>Stable under recommended storage conditions.</p> <p><b>10.3 Possibility of hazardous reactions</b></p> <p>No data available</p> <p><b>10.4 Conditions to avoid</b></p> <p>No data available</p> <p><b>10.5 Incompatible materials</b></p> <p>No data available</p> <p><b>10.6 Hazardous decomposition products</b></p> <p>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	<b>Toxicological Information</b>



	<p><b>11.1 Information on toxicological effects</b></p> <p><b>Acute toxicity</b> No data available Remarks : No data available No data available</p> <p><b>Skin corrosion/irritation</b> No data available</p> <p><b>Serious eye damage/eye irritation</b> No data available</p> <p><b>Respiratory or skin sensitisation</b> No data available</p> <p><b>Germ cell mutagenicity</b> No data available</p> <p><b>Carcinogenicity</b> 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><b>Reproductive toxicity</b> No data available</p> <p><b>Specific target organ toxicity- single exposure</b> No data available</p> <p><b>Specific target organ toxicity - repeated exposure</b> No data available</p> <p><b>Aspiration hazard</b> No data available</p> <p><b>Additional Information</b> RTECS : Not applicable</p>
Section 12	<b>Ecological Information</b>
	<p><b>12.1 Toxicity</b> No data available</p> <p><b>12.2 Persistence and degradability</b> No data available</p> <p><b>12.3 Bioaccumulative potential</b> No data available</p> <p><b>12.4 Mobility in soil</b> No data available</p> <p><b>12.5 PBT and vPvB assessment</b> 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><b>12.6 Other adverse effects</b> Toxic to aquatic life</p>
Section 13	<b>Disposal Considerations</b>
	<p><b>13.1 Waste treatments methods</b></p> <p><b>Product</b> Burn in a chemical incinerator equipped with an after burner and scrubber but exert extra care in igniting as this material is highly flammable. Offer surplus and non-recyclable solutions to a licenced disposal company.</p> <p><b>13.2 Contaminated packaging</b> Dispose of as unused product.</p>
Section 14	<b>Transport Information</b>
	<p><b>14.1 UN-No</b> ADNR : ADR : IATA_C : IATA_P : IMDG : RID :</p> <p><b>14.2 UN proper shipping name</b> ADNR : No dangerous goods ADR : No dangerous goods</p>



	<p>IATA_C : No dangerous goods  IATA_P : No dangerous goods  IMDG : No dangerous goods  RID : No dangerous goods</p> <p><b>14.3 Transport hazard class (es)</b>  ADNR :- ADR :- IATA_C :- IATA_P :- IMDG :- RID :-</p> <p><b>14.4 Packaging group</b>  ADNR :- ADR :- IATA_C :- IATA_P :- IMDG :- RID :-</p> <p><b>14.5 Environmental hazards</b>  ADR : NO IMDG : Marine Pollutant: No IATA_C : No RID : No</p> <p><b>14.6 Special precautions for use</b>  No data available</p>																																
Section 15	<b>Regulatory Information</b>																																
	<p>This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006</p> <p><b>15.1 Safety health and environment regulations/legislation specific for the substance or mixture</b></p> <p><b>15.2 Chemical Safety Assessment</b>  For this product a chemical safety assessment was not carried out.</p>																																
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