



Name of the Product Code No. Section 1 : <b>Chemical Identification</b>		<b>Murashige &amp; Skoog Basal Solution (10X)</b> <b>PL 1028</b> Code No. : PL 1028 Name of the Product : Murashige & Skoog Basal Solution (10X) 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>	
	<b>2.1 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.	
	<b>2.2 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.	
	<b>2.3 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>	
	<b>3.1 Mixture</b> The components of this product need not be disclosed as per the regulations.	
Section 4	<b>First - Aid Measures</b>	
	<b>4.1 Description of first aid measures</b> <b>General advice</b> Consult a physician. Show this safety data sheet to the doctor in attendance. <b>If inhaled</b> Remove victim to fresh air and keep at rest in a position comfortable for breathing. If not breathing, give artificial respiration. Consult a physician. <b>In case of skin contact</b> Wash off with soap and plenty of water. Consult a physician. <b>In case of eye contact</b> Rinse immediately with plenty of water for at least 15 minutes. Consult a physician. <b>If swallowed</b> Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.	
	<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.	
	<b>4.3 Indication of immediate medical attention and special treatment needed</b> Treat symptomatically.	
Section 5	<b>Fire Fighting Measures</b>	
	<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> No data available.	
	<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><b>5.3 Precautions for fire-fighters</b> Cool closed containers exposed to fire with water spray.</p> <p><b>5.4 Further information</b> Wear self-contained breathing apparatus for firefighting if necessary.</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> Keep in suitable, closed containers for disposal. 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.</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 formation of dust and aerosols. Wear protective gloves and eye/face protection. Use only in well ventilated areas. Keep away from heat, sparks and open flame.</p> <p><b>7.2 Conditions for safe storage, including any incompatibilities</b> Store in cool/well-ventilated place. <b>Recommended Storage Temperature</b> : 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> <b>Appropriate engineering controls</b> Handle in accordance to general industrial hygiene and safety practice. Wash hands before breaks, immediately after handling the products and at the end of workday.</p> <p><b>Personal protective equipment</b> <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 standards such as NIOSH (US) or EN 166 (EU). Have eye washing facilities readily available where eye contact can occur.</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> Complete suit protecting against chemicals. The type of protective equipment must be selected according to the concentration and amount of the dangerous substance at the specific workplace.</p> <p><b>Respiratory protection</b> Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</p>



Section 9	<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>																																						
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	<p><b>9.1 Information on basic physical and chemical properties</b></p> <table border="0"> <tr> <td>Appearance</td> <td>Colourless to yellow, clear solution</td> </tr> <tr> <td>Odour</td> <td>No data available</td> </tr> <tr> <td>Odour Threshold</td> <td>No data available</td> </tr> <tr> <td>pH</td> <td>2.9 - 3.9</td> </tr> <tr> <td>Melting/freezing point</td> <td>No data available</td> </tr> <tr> <td>Initial boiling point and boiling range</td> <td>No data available</td> </tr> <tr> <td>Flash point</td> <td>No data available</td> </tr> <tr> <td>Upper/lower flammability or explosive limits</td> <td>No data available</td> </tr> <tr> <td>Evaporation rate</td> <td>No data available</td> </tr> <tr> <td>Flammability (Solid, gas)</td> <td>No data available</td> </tr> <tr> <td>Vapour pressure</td> <td>No data available</td> </tr> <tr> <td>Relative density</td> <td>No data available</td> </tr> <tr> <td>Autoignition Temperature</td> <td>No data available</td> </tr> <tr> <td>Decomposition Temperature</td> <td>No data available</td> </tr> <tr> <td>Viscosity</td> <td>No data available</td> </tr> <tr> <td>Explosive properties</td> <td>No data available</td> </tr> <tr> <td>Oxidizing properties</td> <td>No data available</td> </tr> <tr> <td>Vapour density</td> <td>No data available</td> </tr> <tr> <td>Thermal decomposition</td> <td>No data available</td> </tr> </table> <p><b>9.2 Other safety information</b> No data available</p>	Appearance	Colourless to yellow, clear solution	Odour	No data available	Odour Threshold	No data available	pH	2.9 - 3.9	Melting/freezing point	No data available	Initial boiling point and boiling range	No data available	Flash point	No data available	Upper/lower flammability or explosive limits	No data available	Evaporation rate	No data available	Flammability (Solid, gas)	No data available	Vapour pressure	No data available	Relative density	No data available	Autoignition Temperature	No data available	Decomposition Temperature	No data available	Viscosity	No data available	Explosive properties	No data available	Oxidizing properties	No data available	Vapour density	No data available	Thermal decomposition	No data available
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Section 10	<p><b>Stability and Reactivity</b></p>																																						
	<p><b>10.1 Reactivity</b> No data available</p> <p><b>10.2 Chemical stability</b> Stable under recommended storage conditions.</p> <p><b>10.3 Possibility of hazardous reactions</b> No data available</p> <p><b>10.4 Conditions to avoid</b> No data available</p> <p><b>10.5 Incompatible materials</b> No data available</p> <p><b>10.6 Hazardous decomposition products</b> 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 .</p>																																						
Section 11	<p><b>Toxicological Information</b></p>																																						



	<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- 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 no substance considered to be persistent, bioaccumulating or toxic (PBT) or very persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.</p> <p><b>12.6 Other adverse effects</b></p>									
Section 13	<b>Disposal Considerations</b>									
	<p><b>13.1 Waste treatments methods</b> <b>Product</b> Dispose of as unused product.</p> <p><b>13.2 Contaminated packaging</b> 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	<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></p> <table><tr><td>ADNR</td><td>:</td><td>Not dangerous good</td></tr><tr><td>ADR</td><td>:</td><td>Not dangerous good</td></tr><tr><td>IATA_C</td><td>:</td><td>Not dangerous good</td></tr></table>	ADNR	:	Not dangerous good	ADR	:	Not dangerous good	IATA_C	:	Not dangerous good
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	<p>IATA_P : Not dangerous good IMDG : Not dangerous good RID : Not dangerous good</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> ADNR : No IMDG : Marine pollutant No IATA_C : No</p> <p><b>14.6 Special precautions for use</b> No data available</p>
Section 15	<b>Regulatory Information</b>
	<p>This safety datasheet 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>
Section 16	<b>Other Information</b>
	<p><b>Further Information</b></p> <p>The information contained in this data sheet represents the best information currently available to us. However, no warranty is made with respect to its completeness and we assume no liability resulting from its use. The information is offered solely for user's obligation to investigate and determine the suitability of the information for their particular purpose.</p>