



Name of the Product Code No. Section 1 : <b>Chemical Identification</b> Code No. Name of the Product Produced by Address Tel. No.	<b>Murashige &amp; Skoog Medium</b> <b>PT 1021</b>  PT 1021 Murashige & Skoog Medium Central Drug House Pvt. Ltd. 7/28 Vardaan House, Darya Ganj, New Delhi (INDIA) 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>  Oxidising solids, (Category 3), H272 Skin corrosion or irritation, (Category 2), H315 Serious eye damage or eye irritation, (Category 2A), H319 Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335 Hazardous to the aquatic environment, long term hazard, (Category 3), H412																												
2.2	<b>Label elements</b> <b>Labeling according to Regulation (EC) No.1272/2008</b>  <div style="display: flex; justify-content: center; gap: 20px;"> <div style="text-align: center;">  GHS03         </div> <div style="text-align: center;">  GHS07         </div> </div> <table style="width: 100%; border: none;"> <tr> <td style="width: 30%;">Pictogram</td> <td></td> </tr> <tr> <td>Signal word</td> <td>Warning</td> </tr> <tr> <td>Hazard Statement(s)</td> <td></td> </tr> <tr> <td>H272</td> <td>May intensify fire; oxidizer</td> </tr> <tr> <td>H315</td> <td>Causes skin irritation</td> </tr> <tr> <td>H319</td> <td>Causes serious eye irritation</td> </tr> <tr> <td>H335</td> <td>May cause respiratory irritation</td> </tr> <tr> <td>H412</td> <td>Harmful to aquatic life with long lasting effects</td> </tr> <tr> <td>Precautionary Statement(s)</td> <td></td> </tr> <tr> <td>P210</td> <td>Keep away from heat/sparks/open flames/hot surfaces. — No smoking.</td> </tr> <tr> <td>P273</td> <td>Avoid release to the environment.</td> </tr> <tr> <td>P280</td> <td>Wear protective gloves/protective clothing/eye protection/face protection.</td> </tr> <tr> <td>P305+P351+P338</td> <td>IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.</td> </tr> <tr> <td>P370 + P378</td> <td>In case of fire: Use suitable extinguishing media for extinction.</td> </tr> </table>	Pictogram		Signal word	Warning	Hazard Statement(s)		H272	May intensify fire; oxidizer	H315	Causes skin irritation	H319	Causes serious eye irritation	H335	May cause respiratory irritation	H412	Harmful to aquatic life with long lasting effects	Precautionary Statement(s)		P210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.	P273	Avoid release to the environment.	P280	Wear protective gloves/protective clothing/eye protection/face protection.	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.	P370 + P378	In case of fire: Use suitable extinguishing media for extinction.
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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	Composition/Information On Ingredients																																																											
	<p><b>3.1 Mixture</b></p> <table border="1"><thead><tr><th>Component</th><th>Classification</th><th>Concentration</th></tr></thead><tbody><tr><td colspan="3">Potassium nitrate</td></tr><tr><td>CAS No. : 7757-79-1</td><td><b>As Per EC Regulation 1272/2008</b></td><td rowspan="2">≥40 - ≤50%</td></tr><tr><td>EC No. : 231-818-8</td><td>Ox. Sol. 3 H272</td></tr></tbody></table> <table border="1"><thead><tr><th>Component</th><th>Classification</th><th>Concentration</th></tr></thead><tbody><tr><td colspan="3">Ammonium nitrate</td></tr><tr><td>CAS No. : 6484-52-2</td><td><b>As Per EC Regulation 1272/2008</b></td><td rowspan="2">≥30 - ≤40%</td></tr><tr><td>EC No. : 229-347-8</td><td>Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H272; H315; H319; H335 <b>As Per EC Directive 67/548/EEC or 1999/45/EC</b> O (gas); Xi R8; R36/37/38</td></tr></tbody></table> <table border="1"><thead><tr><th>Component</th><th>Classification</th><th>Concentration</th></tr></thead><tbody><tr><td colspan="3">Calcium chloride, anhydrous</td></tr><tr><td>CAS No. : 10043-52-4</td><td><b>As Per EC Regulation 1272/2008</b></td><td rowspan="2">≥6 - ≤8%</td></tr><tr><td>EC No. : 233-140-8</td><td>Eye Irrit. 2A H319</td></tr></tbody></table> <table border="1"><thead><tr><th>Component</th><th>Classification</th><th>Concentration</th></tr></thead><tbody><tr><td colspan="3">Manganese sulphate</td></tr><tr><td>CAS No. : 10034-96-5</td><td><b>As Per EC Regulation 1272/2008</b></td><td rowspan="3">≥0.2 - ≤0.5%</td></tr><tr><td>EC No. : 232-089-9</td><td>STOT RE 2; Aquatic Chronic 2 H373;</td></tr><tr><td>Index No.: 025-003-00-4</td><td>H411</td></tr></tbody></table> <table border="1"><thead><tr><th>Component</th><th>Classification</th><th>Concentration</th></tr></thead><tbody><tr><td colspan="3">Boric acid</td></tr><tr><td>CAS No. : 10043-35-3</td><td><b>As Per EC Regulation 1272/2008</b></td><td rowspan="3">≥0.1 - ≤0.2%</td></tr><tr><td>EC No. : 233-139-2</td><td>Repr.Tox. 1A, 1B H360</td></tr><tr><td>Index- No.: 005-007-00-2</td><td></td></tr></tbody></table>	Component	Classification	Concentration	Potassium nitrate			CAS No. : 7757-79-1	<b>As Per EC Regulation 1272/2008</b>	≥40 - ≤50%	EC No. : 231-818-8	Ox. Sol. 3 H272	Component	Classification	Concentration	Ammonium nitrate			CAS No. : 6484-52-2	<b>As Per EC Regulation 1272/2008</b>	≥30 - ≤40%	EC No. : 229-347-8	Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H272; H315; H319; H335 <b>As Per EC Directive 67/548/EEC or 1999/45/EC</b> O (gas); Xi R8; R36/37/38	Component	Classification	Concentration	Calcium chloride, anhydrous			CAS No. : 10043-52-4	<b>As Per EC Regulation 1272/2008</b>	≥6 - ≤8%	EC No. : 233-140-8	Eye Irrit. 2A H319	Component	Classification	Concentration	Manganese sulphate			CAS No. : 10034-96-5	<b>As Per EC Regulation 1272/2008</b>	≥0.2 - ≤0.5%	EC No. : 232-089-9	STOT RE 2; Aquatic Chronic 2 H373;	Index No.: 025-003-00-4	H411	Component	Classification	Concentration	Boric acid			CAS No. : 10043-35-3	<b>As Per EC Regulation 1272/2008</b>	≥0.1 - ≤0.2%	EC No. : 233-139-2	Repr.Tox. 1A, 1B H360	Index- No.: 005-007-00-2	
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Component	Classification	Concentration
Potassium iodide		
CAS No. : 7681-11-0	<b>As Per EC Regulation 1272/2008</b>	≥0.01 - ≤0.03%
EC No. : 231-659-4	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	

Component	Classification	Concentration
Zinc sulphate, heptahydrate		
CAS No. : 7446-20-0	<b>As Per EC Regulation 1272/2008</b>	≥0.1 - ≤0.3%
EC No. : 231-793-3	Acute Tox.oral 4; Eye Dam. 1; Aquatic	
Index-No.: 030-006-00-9	Chronic 1 H302; H318; H410	

Component	Classification	Concentration
Cobalt chloride, 6H <sub>2</sub> O		
CAS No. : 7791-13-1	<b>As Per EC Regulation 1272/2008</b>	≥0.0005 - ≤0.0007%
EC No. : 231-589-4	Acute Tox.oral 4; Skin Sens. 1; Resp.	
Index-No.: 027-004-00-5	Sens. 1; Muta. 2; Carc. 1B; Repr. 1B;	
	Aquatic Chronic 1 H302; H317; H334; H341; H350i; H360F; H410	

Component	Classification	Concentration
Ferrous sulphate, heptahydrate (Part B)		
CAS No. : 7782-63-0	<b>As Per EC Regulation 1272/2008</b>	≥0.5 - ≤0.7%
EC No. : 231-753-5	Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	

Component	Classification	Concentration
Nicotinic acid		
CAS No. : 59-67-6	<b>As Per EC Regulation 1272/2008</b>	≥0.005 - ≤0.02%
EC No. : 200-441-0	Eye Irrit. 2A H319	

Section 4

**First - Aid Measures**

**4.1**

**Description of first aid measures**

**General advice**

Consult a physician. Show this safety data sheet to the doctor in attendance.

**If inhaled**

If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.

**In case of skin contact**

Wash off with soap and plenty of water. Consult a physician.



	<p><b><i>In case of eye contact</i></b> Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.</p> <p><b><i>If swallowed</i></b> 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><i>Suitable extinguishing media</i></b> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. <b><i>Unsuitable extinguishing media</i></b> No data available.</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> 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. Storage class (TRGS 510): Oxidizing Solids <b><i>Recommended Storage Temperature</i></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></p> <p><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></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 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 particle respirator type N100 (US) or type P3 (EN 143) respirator cartridges 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>																																								
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Section 10	<b>Stability and Reactivity</b>
	<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> Strong reducing agents, Strong acids, Powdered metals</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	<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- 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</p>



	and very bioaccumulative (vPvB) at levels of 0.1% or higher. <b>12.6 Other adverse effects</b>
Section 13	<b>Disposal Considerations</b>
	<b>13.1 Waste treatments methods</b> <b>Product</b> Dispose of as unused product. <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.
Section 14	<b>Transport Information</b>
	<b>14.1 UN-No</b> ADNR : 1477 ADR : 1477 IATA_C : 1477 IATA_P : 1477 IMDG : 1477 RID : 1477 <b>14.2 UN proper shipping name</b> ADNR : Nitrates, inorganic, n.o.s. ADR : Nitrates, inorganic, n.o.s. IATA_C : Nitrates, inorganic, n.o.s. IATA_P : Nitrates, inorganic, n.o.s. IMDG : Nitrates, inorganic, n.o.s. RID : Nitrates, inorganic, n.o.s. <b>14.3 Transport hazard class (es)</b> ADNR : 5.1 ADR : 5.1 IATA_C : 5.1 IATA_P : 5.1 IMDG : 5.1 RID : 5.1 <b>14.4 Packaging group</b> ADNR : II ADR : II IATA_C : II IATA_P : II IMDG : II RID : II <b>14.5 Environmental hazards</b> ADNR : No ADR : No IMDG : Marine pollutant No IATA_C : No <b>14.6 Special precautions for use</b> No data available
Section 15	<b>Regulatory Information</b>
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006. <b>15.1 Safety health and environment regulations/legislation specific for the substance or mixture</b> <b>15.2 Chemical Safety Assessment</b> For this product a chemical safety assessment was not carried out.
Section 16	<b>Other Information</b> H272 May intensify fire; oxidizer H302 Harmful if swallowed



H315	Causes skin irritation
H317	May cause an allergic skin reaction
H318	Causes serious eye damage
H319	Causes serious eye irritation
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled
H335	May cause respiratory irritation
H341	Suspected of causing genetic defects
H350i	May cause cancer by inhalation
H360	May damage fertility or the unborn child
H360F	May damage fertility
H373	May cause damage to organs through prolonged or repeated exposure
H410	Very toxic to aquatic life with long lasting effects
H411	Toxic to aquatic life with long lasting effects
Acute Tox.oral 4	Acute toxicity, oral, Category 4
Aquatic Chronic 1	Hazardous to the aquatic environment, long term hazard, Category 1
Aquatic Chronic 2	Hazardous to the aquatic environment, long term hazard, Category 2
Carc. 1B	Carcinogenicity, Category 1B
Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Muta. 2	Germ cell mutagenicity, Category 2
Ox. Sol. 3	Oxidising solids, Category 3
Repr. 1B	Reproductive toxicity, Category 1B
Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B
Resp. Sens. 1 Skin	Sensitisation, respiratory, Category 1
Irrit. 2	Skin corrosion or irritation, Category 2
Skin Sens. 1 STOT	Sensitisation, Skin, Category 1
RE 2	Specific target organ toxicity, repeated exposure, Category 2 Specific
STOT SE 3	target organ toxicity, single exposure, Respiratory tract irritation, Category 3
R36/37/38	Irritating to eyes, respiratory system and skin.
R8	Contact with combustible material may cause fire.
O (gas)	Oxidising (gas)
Xi	Irritant
<b>Further Information</b>	
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.	