


Name of the Product : Murashige & Skoog Plant Salt Mixture w/ Macroelements & Microelements; w/o NH₄NO₃ & KNO₃ Code No. : TS 2110 Section 1 : Chemical Identification Code No. : TS 2110 Name of the Product : Murashige & Skoog Plant Salt Mixture w/ Macroelements & Microelements; w/o NH ₄ NO ₃ & KNO ₃ 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] Serious eye damage or eye irritation, (Category 2A), H319 2.2 Label elements Labeling according to Regulation (EC) No.1272/2008  Pictogram Signal word Warning Hazard Statement(s) H319 Causes serious eye irritation Precautionary Statement(s) 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. 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" data-bbox="416 1525 1493 1644"> <thead> <tr> <th>Component</th> <th>Classification</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td>Calcium chloride, anhydrous</td> <td></td> <td></td> </tr> <tr> <td>CAS No. : 10043-52-4</td> <td>As Per EC Regulation 1272/2008</td> <td>>=40 - <=45%</td> </tr> <tr> <td>EC No. : 233-140-8</td> <td>Eye Irrit. 2A H319</td> <td></td> </tr> </tbody> </table> <table border="1" data-bbox="416 1765 1493 1912"> <thead> <tr> <th>Component</th> <th>Classification</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td>Manganese sulphate</td> <td></td> <td></td> </tr> <tr> <td>CAS No. : 10034-96-5</td> <td>As Per EC Regulation 1272/2008</td> <td>>=1 - <=3%</td> </tr> <tr> <td>EC No. : 232-089-9</td> <td>STOT RE 2; Aquatic Chronic 2 H373; H411</td> <td></td> </tr> <tr> <td>Index-No : 025-003-00-4</td> <td></td> <td></td> </tr> </tbody> </table>	Component	Classification	Concentration	Calcium chloride, anhydrous			CAS No. : 10043-52-4	As Per EC Regulation 1272/2008	>=40 - <=45%	EC No. : 233-140-8	Eye Irrit. 2A H319		Component	Classification	Concentration	Manganese sulphate			CAS No. : 10034-96-5	As Per EC Regulation 1272/2008	>=1 - <=3%	EC No. : 232-089-9	STOT RE 2; Aquatic Chronic 2 H373; H411		Index-No : 025-003-00-4		
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Component	Classification	Concentration
Boric acid		
CAS No. : 10043-35-3 EC No. : 233-139-2 Index-No : 005-007-00-2	As Per EC Regulation 1272/2008 Repr.Tox. 1A, 1B H360	>=0.6 - <=0.9%

Component	Classification	Concentration
Potassium iodide		
CAS No. : 7681-11-0 EC No. : 231-659-4	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit. 2A H302; H315; H319	>=0.05 - <=0.2%

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

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

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 Remove victim to fresh air and keep at rest in a position comfortable for breathing. 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. In case of eye contact Rinse immediately with plenty of water for at least 15 minutes. Consult a physician. If swallowed 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 No data available.
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.



	<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>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 No data available</p>
Section 10	Stability and Reactivity
	<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(NO_x), Sulphur oxides, Oxides of phosphorus. Potassium oxides, Magnesium oxide, Cobalt/cobalt oxides, Calcium oxide, Copper oxides.</p>
Section 11	Toxicological Information
	<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</p>



	No data available Aspiration hazard No data available Additional Information RTECS: Not applicable
Section 12	Ecological Information
	12.1 Toxicity No data available 12.2 Persistence and degradability No data available 12.3 Bioaccumulative potential No data available 12.4 Mobility in soil No data available 12.5 PBT and vPvB assessment 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. 12.6 Other adverse effects
Section 13	Disposal Considerations
	13.1 Waste treatments methods Product Dispose of as unused product. 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.
Section 14	Transport Information
	14.1 UN-No ADNR : ADR : IATA_C : IATA_P : IMDG : RID : 14.2 UN proper shipping name 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. 14.3 Transport hazard class (es) ADNR : - ADR : - IATA_C : - IATA_P : - IMDG : - RID : - 14.4 Packaging group ADNR : - ADR : - IATA_C : - IATA_P : - IMDG : - RID : - 14.5 Environmental hazards ADR : NO IMDG : Marine Pollutant: No IATA_C : No 14.6 Special precautions for use No data available
Section 15	Regulatory Information
	This safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006 15.1 Safety health and environment regulations/legislation specific for the substance or mixture 15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out.
Section 16	Other Information



H302	Harmful if swallowed
H315	Causes skin irritation
H319	Causes serious eye irritation
H360	May damage fertility or the unborn child
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
Eye Dam. 1	Serious eye damage or eye irritation, Category 1
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A
Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B
Skin Irrit. 2	Skin corrosion or irritation, Category 2
STOT RE 2	Specific target organ toxicity, repeated exposure, Category 2

Further Information

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.