

	Name of the Pro	oduct	Murashige & Skoog Plant Salt Mixture			
Code No						
Code No.	hemical Identific	ation	TS2005			
	Code No. : Name of the Product :		: TS2005			
			: Murashige & Skoog Plant Salt Mixture			
			w/o CaCl ₂			
	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 Iden	tification				
	2.1 Cla	assification of the	substance or mixture			
	CI	P Classification-R	Regulation (EC) No. 1272/2008[EU-GHS/CLP]			
		Oxidising solids, (Category 3), H272				
			ritation, (Category 2), H315			
			e or eye irritation, (Category 2A), H319			
			an toxicity, single exposure, Respiratory tract irritation, (Category 3), H335 iquatic environment, long term hazard, (Category 3), H412			
			the H-Statements mentioned in this Section, See Section 16			
	2.2 L	abel elements				
	L	abeling according	g to Regulation (EC) No.1272/2008			
		Pictogram Signal word	Warning			
		Hazard Statemen	t(s)			
	н	272	May intensify fire; oxidizer			
	н	315	Causes skin irritation			
	н	319	Causes serious eye irritation			
	н	335	May cause respiratory irritation			
	н	412	Harmful to aquatic life with long lasting effects			
		cautionary Statem				
		210	Keep away from heat/sparks/open flames/hot surfaces. — No smoking.			
		273	Avoid release to the environment.			
		280	Wear protective gloves/protective clothing/eye protection/face protection.			
	Ρ.	305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contactlenses, if present and easy to do. Continue rinsing.			
	P	370 + P378	In case of fire: Use suitable extinguishing media for extinction.			
	2.3 Other Hazards		5			
			mixture contains no components considered to be either persistent, bioaccumulative and ery persistent and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
	1					



	Potassium nitrate CAS No. : C No. : C No. : Cor Ammonium nitrate CAS No. :	7757-79-1 231-818-8 mponent	As Per EC Regulation 1272/2008 Ox. Sol. 3 H272	>=45 - <=50%
	C No. : Con Ammonium nitrate	231-818-8	- · ·	>=45 - <=50%
C	Ammonium nitrate	nonent		
C	Ammonium nitrate	monent		
C			Classification	Concentration
-	CAS No. :		As Per EC Regulation 1272/2008	
	C No. :	6484-52-2 229-347-8	Ox. Sol. 3; Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H272; H315; H319; H335	>=40 - <=45%
	Со	mponent	Classification	Concentratio
Ν	Aanganese sulphate			
E	CAS No. : EC No. : ndex-No :	10034-96-5 232-089-9 025-003-00-4	As Per EC Regulation 1272/2008 STOT RE 2; Aquatic Chronic 2 H373; H411	>=3 - <=6%
	Cor	mponent	Classification	Concentration
B	Boric acid			
C	CAS No. :	10043-35-3	As Per EC Regulation 1272/2008	>=0.1 - <=0.3%
	C No. : ndex-No :	233-139-2 005-007-00-2	Repr.Tox. 1A, 1B H360	
	Co	mponent	Classification	Concentration
P	otassium iodide	inpoliciti	classification	concentration
C	CAS No. : CAS No. :	7681-11-0 231-659-4	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Skin Irrit. 2; Eye Irrit.2A H302; H315; H319	>=0.02 - <=0.04
Component			Classification	Concentration
	Linc sulphate, hepta		As Per EC Regulation 1272/2008	> 0.1 < 0.20
E	CAS No. : EC No. : ndex-No :	7446-20-0 231-793-3 030-006-00-9	Acute Tox.oral 4; Eye Dam. 1; Aquatic Chronic 1 H302; H318; H410	>=0.1 - <=0.3%



Section 4	First - Aid Measures				
	4.1 Description of fi	rst aid measures			
	General advice				
	Consult a physici If inhaled	ian. Show this safety data sheet to the doctor in attendance.			
	Remove victim to breathing,give an In case of skin co	o fresh air and keep at rest in a position comfortable for breathing. If not rtificial respiration. Consult a physician. O ntact Pap and plenty of water. Consult a physician.			
	In case of eye co				
	Rinse immediate If swallowed	ely with plenty of water for at least 15 minutes. Consult a physician.			
	4.2 Most important The most import	symptoms and effects, both acute and delayed sant known symptoms and effects are described in the labeling (see section 2.2)			
	and/or in sectior 4.3 Indication of im Treat symptoma	mediate medical attention and special treatment needed			
Section 5	Fire Fighting Measures				
	5.1 Extinguishing m	edia			
	Suitable extingu Use water spray, Unsuitable extin No data available	, alcohol-resistant foam, dry chemical or carbon dioxide. Iguishing media			
	Magnesium oxid Copperoxides, M	arising from the substance or mixture es, Sulphur oxides, Sodium oxides, Iron oxides, Calcium Oxide, Cobalt oxides, Ianganese oxides,, Molybdenum oxides, Oxides of Phosphorus, Potassium oxides,			
	Zinc oxides 5.3 Precautions for	fire-fighters			
	Cool closed cont	ainers exposed to fire with water spray.			
	5.4 Further informa	tion			
	Wear self-contai	ned breathing apparatus for firefighting if necessary.			
Section 6	Accidental Release Measure	25			
	6.1 Personal precau	tions, protective equipment and emergency procedures			
		rotective equipment. Avoid dust formation. Avoid breathing vapours , mist or gas e ventilation. Evacuate personnel to safe areas. Avoid breathing dust. For personal ection 8.			
	6.2 Environmental p Prevent further le environmental M	eakage or spillage if safe to do so. DO not let product enter drains. Discharge into			
	Keep in suitable, with an electrica	aterials for containment and cleaning up closed containers for disposal. Sweep up and shovel. Contain spillage, and then collect lly protected vacuum cleaner or by wet-brushing and place in container for disposal l regulations (see section 13). Keep in suitable, closed containers for disposal			
	6.4 Reference to ot For disposal see				



Section 7	Handling and Storage				
	7.1 Precautions for safe handling				
	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.				
	7.2 Conditions for safe storage, including any incompatibilities				
	Store in cool/well-ventilated place. Storage class (TRGS 510): Oxidizing Solids				
	Recommended Storage Temperature : 2 to 8° C				
	7.3 Specific end uses				
	Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.				
Section 8	Exposure Controls / Personal Protection				
	8.1 Control parameters8.2 Exposure controls				
	Appropriate engineering controls				
	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. <i>Personal protective equipment</i>				
	Eye/face protection				
	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.				
	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.				
	Body protection				
	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. <i>Respiratory protection</i>				
	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).				
	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.				



Section 9	Physical and Chemical Properties					
	9.1 Information on basic physical and chemical properties					
	Appearance	White to off-white, homogenous powder				
	Odour	No data available				
	Odour Threshold	No data available				
	pH	3.5-4.5				
		No data available				
	Melting/freezing point 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				
	Water solubility	Soluble in water				
	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				
	9.2 Other safety information No data available					
Section 10	Stability and Reactivity					
500000120	10.1 Reactivity					
	No data available					
	10.2 Chemical stability					
	Stable under recommended storage conditions. 10.3 Possibility of hazardous reactions No data available 10.4 Conditions to avoid No data available 10.5 Incompatible materials					
	No data available					
	10.6 Hazardous decomposition products Hazardous decomposition products formed under fire conditions - Nitrogen oxides(NOx), Sulphur oxi					
		er fire conditions - Nitrogen oxides(NOX), Sulphur oxides, Oxides oxide, Cobalt/cobalt oxides, Calcium oxide, Copper oxides				



aation on toxicological effects Acute toxicity No data available Remarks : No data available Skin corrosion/irritation No data available Serious eye damage/eye irritation No data available Respiratory or skin sensitisation No data available Germ cell mutagenicity No data available Carcinogenicity ARC: 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. Reproductive toxicity No data available Specific target organ toxicity - repeated exposure No data available Aspiration hazard No data available Additional Information RTECS : Not Applicable			
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No data available			
12.3 Bioaccumulative potential			
a available			
ty in soil			
a available			
nd vPvB assessment			
paration contains no substance considered to be persistent, bioaccumulating or toxic (PBT)or very			
nt and very bioaccumulative (vPvB) at levels of 0.1% or higher.			
adverse effects			
No data available			
Disposal Considerations 13.1 Waste treatments methods			
Waste treatments methods			
Product			
Dispose of as unused product			
Contaminated nackaging			
Contaminated packaging Burn in a chemical incinerator equipped with an afterburner and srcubber but exert extra care in igniting			



Section 14	Transport Information				
	14.1 UN-No				
	ADNR : 1477 ADR : 1477 IATA_C : 1477 IATA_P : 1477 IMDG : 1477 RID : 1477				
	14.2 UN proper shipping name				
	ADNR:Nitrates, inorganic, n.o.sADR:Nitrates, inorganic, n.o.sIATA_C:Nitrates, inorganic, n.o.sIATA_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 : 5.1 ADR 14.4 Packaging group				
	ADNR : II ADR : II IATA_C : II IATA_P : II IMDG : II RID : II				
	14.5 Environmental hazards				
	ADR : No IMDG : Marine Pollutant : No IATA_C : No				
	14.6Special precautions for useNo data available				
Section 15	Regulatory Information				
	This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.				
	15.1 Safety health and environment regulations/legislation specific for the substance or mixture				
	No data available				
	15.2 Chemical Safety Assessment For this product a chemical safety assessment was not carried out.				
Section 16	Other Information				
	H272	May intensify fire; oxidizer			
	H302	Harmful if swallowed			
	H315	Causes skin irritation			
	H318	Causes serious eye damage			
	H319	Causes serious eye irritation			
	H335	May cause respiratory irritation			
	H360	May damage fertility or the unborn child			
	H373	May cause damage to organs through prolonged or repeated			
	H410	exposure 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			
	Ox. Sol. 3	Oxidising solids, Category 3			
	Ox. Sol. 3 Repr.Tox. 1A, 1B	Oxidising solids, Category 3 Reproductive toxicity, Category 1A, 1B			
	Repr.Tox. 1A, 1B	Reproductive toxicity, Category 1A, 1B Skin corrosion or irritation, Category 2			
	Repr.Tox. 1A, 1B Skin Irrit. 2	Reproductive toxicity, Category 1A, 1B			



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.