

Name of the Product Knudson C Orchid Microelements (100X)

Code No. TS2059

Section 1 : Chemical Identification

Code No. : **TS2059**

Name of the Product : Knudson C Orchid Microelements (100X)

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]

Specific target organ toxicity, repeated exposure, (Category 2), H373 Hazardous to the aquatic environment, long term hazard, (Category 2), H411 For the full text of the H-Statements mentioned in this Section, See Section 16

2.2 Label elements

Labeling according to Regulation (EC) No.1272/2008



Pictogram

Signal word Warning

Hazard Statement(s)

H373 May cause damage to organs through prolonged or repeated exposure

H411 Toxic to aquatic life with long lasting effects

Precautionary Statement(s)

P273 Avoid release to the environment.

P280 Wear protective gloves/protective clothing/eye protection/face protection.
P304 + P312 IF INHALED: Call a POISON CENTER or doctor/physician if you feel unwell.

P307 + P311 IF exposed: call a POISON CENTER or doctor/physician.
P391 Collect spillage. Hazardous to the aquatic environment

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

Component		Classification	Concentration
Manganese sulphate			
CAS No. : EC No. : Index-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	>=15 - <=20%

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 soon and planty of water. Consult a physician		
	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, Copperoxides, 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.		
	5.4 Further information		
	Wear self-contained breathing apparatus for firefighting if necessary.		
Section 6	Accidental Release Measures		
	6.1 Personal precautions, protective equipment and emergency procedures		
	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.		
	6.2 Environmental precautions		
	Prevent further leakage or spillage if safe to do so. DO not let product enter drains. Discharge into environmental Must be avoided		
	6.3 Methods and materials for containment and cleaning up		
	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		
	6.4 Reference to other sections		
	For disposal see Section 13.		
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		
	Recommended Storage Temperature : 2 to 8° C		



	7.3 Specific end uses				
Section 8	Apart from the uses mentioned in section 1.2	no other specific uses are stipulated.			
Section 8	Exposure Controls / Personal Protection				
	8.1 Control parameters 8.2 Exposure controls				
	Appropriate engineering controls				
		ial hygiene and safety practice. Wash hands before breaks,			
	immediately after handling the product				
	Personal protective equipment				
	Eye/face protection Safety alasses with side-shields conform	ning to EN 166 Use equipment for eye protection tested and			
		nt standards such as NIOSH (US) or EN 166 (EU). Have eye-washing			
	facilities readily available where eye co.				
	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				
		ecifications 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. **Respiratory protection**				
	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	al properties			
	Appearance	White to off-white homogenous powder			
	Odour	No data available			
	Odour Threshold	No data available			
	рН	3.4-4.4			
	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			
	Water solubility	Soluble in water			
	Autoignition Temperature	No data available			
	Decomposition Temperature	No data available			
	Viscosity	No data available			



	Explosive properties	No data available
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	Oxidizing properties	No data available
	Vapour density	No data available
	Thermal decomposition	No data available
	9.2 Other safety information	
	9.2 Other safety information No data available	
	No data available	
Section 10	Stability and Reactivity	
	10.1 Reactivity	
	No data available	
	10.2 Chemical stability	
	Stable under recommended storage con	ditions.
	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	
		ned under fire conditions - Nitrogen oxides(NOx), Sulphur oxides, Oxides
	of phosphorus,. Potassium oxides, Mag	nesium oxide, Cobalt/cobalt oxides, Calcium oxide, Copper oxides
Section 11	Toxicological Information	
3000001111	11.1 Information on toxicological effects	
	Acute toxicity	
	No data available	
	Remarks : No data available	
	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	
	_ ·	ct present at levels greater than or equal to 0.1% is identified as
	probable, possible or confirmed hi	
	Reproductive toxicity	ζ ,
	No data available	
	Specific target organ toxicity - rep	peated exposure
	No data available	
	Aspiration hazard	
	No data available	
	Additional Information	
	RTECS : Not Applicable	
Section 12	Ecological Information	
Jection 12	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			
	No data available			
Section 13	Pinned Consideration			
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 srcubber but exert extra care in igniting			
	as this material is highly flammable. Contact a licenced professional waste disposal service todispose off			
	this material.			
Section 14	Transport Information			
36000114	14.1 UN-No			
	ADNR:ADR:IATA C:IATA P:IMDG:RID:			
	ADIN ADIN INTA_C. INTA_F. INDUG. NID.			
	14.2 UN proper shipping name			
	The state of the s			
	ADNR : Not dangerous goods ADR : Not dangerous goods			
	IATA_C : Not dangerous goods			
	IATA_P : Not dangerous goods			
	IMDG : Not dangerous goods			
	RID : Not dangerous goods			
	The Troc dangerous goods			
	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 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			
	For this product a chemical safety assessment was not carried out.			
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Section 16	Other Information		
	H373	May cause damage to organs through prolonged or repeated exposure	
	H411	Toxic to aquatic life with long lasting effects	
	Aquatic Chronic 2	Hazardous to the aquatic environment, long term hazard, Category 2	
	STOT RE 2	Specific target organ toxicity, repeated exposure, Category 2	
	Further Information		
	warranty is made with respe	n this data sheet represents the best information currently available to us. However, no ect to its completeness and we assume no liability resulting from its use. The information is gation to investigate and determine the suitability of the information for their particular	