Name of the Product		**White Root Culture Modified Medium**
Code No.		**PT 1009**
Section 1 :	**Chemical Identification**	
	Code No.	: PT 1009
	Name of the Product	: White Root Culture Modified Medium
	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]

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

2.2 Label elements

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

Not a hazardous substance or mixture according to Regulation (EC) No.1272/2008.

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

Component		Classification	Concentration
Potassium nitrate			
CAS No. :	7757-79-1	**As Per EC Regulation 1272/2008**	>=0.2 - <=0.5%
EC No. :	231-818-8	Ox. Sol. 3 H272	

Component		Classification	Concentration
Manganese sulphate			
CAS No. :	10034-96-5	**As Per EC Regulation 1272/2008**	>=0.01 - <=0.03%
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	**As Per EC Regulation 1272/2008**	>=0.006 - <=0.008%
EC No. :	232-139-2	Repr.Tox. 1A, 1B H360	
Index No.:	005-007-00-2		

Component		Classification	Concentration
Potassium iodide			
CAS No. :	7681-11-0	**As Per EC Regulation 1272/2008**	>=0.003 - <=0.004%
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	**As Per EC Regulation 1272/2008**	>=0.01 - <=0.02%
	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**
Ferrous sulphate, heptahydrate			
CAS No. :	7782-63-0	**As Per EC Regulation 1272/2008**	>=0.01 - <=0.02%
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	**As Per EC Regulation 1272/2008**	>=0.001 - <=0.003%
EC No. :	200-441-0	Eye Irrit. 2A H319	

Refer Section 16 for complete statement of H codes and its classification

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.

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

No data available

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.

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 environment 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 Keep away from heat and source of ignitionAvoid contact with skin and eyes. Avoid inhalation of dust and aerosols. Provide appropriate exhaust ventilation at places where dust is formed. For precautions see section 2.2 **7.2 Conditions for safe storage, including any incompatibilities** Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Oxidizing Solids. ***Recommended Storage Temperature :*** 2-8°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 parameters **8.2 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. ***Personal protective equipment*** ***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. ***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 properties

	Appearance	White to off-white, homogenous powder
	Odour	No data available
	Odour Threshold	No data available
	pH	4.4 – 5.4
	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
	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**	
	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** Strong oxidizing agents **10.6 Hazardous decomposition products** 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. In the event of fire. Refer section 5	
Section 11	**Toxicological Information**	
	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*** 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. ***Reproductive toxicity*** No data available ***Specific target organ toxicity- repeated exposure*** 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 srcubber 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 : Not dangerous good ADR : Not dangerous good IATA_C : Not dangerous good IATA_P : Not dangerous good IMDG : Not dangerous good RID : Not dangerous good **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** ADNR : No 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** **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
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
Ox. Sol. 3	Oxidising solids, Category 3
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.