Name of the Product	**Gamborg B5 Plant Salt Mixture**
Code No.	**TS2014**

Section 1 : **Chemical Identification**

Code No.	:	**TS2014**
Name of the Product	:	Gamborg B5 Plant Salt Mixture
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]

Oxidising solids, (Category 3), H272 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)

H272 May intensify fire; oxidizer

Precautionary Statement(s)

P210 Keep away from heat/sparks/open flames/hot surfaces. — No smoking.

P370 + P378 In case of fire: Use suitable extinguishing media for extinction.

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
Potassium nitrate		
CAS No. : 7757-79-1 EC No. : 231-818-8	**As Per EC Regulation 1272/2008** Ox. Sol. 3 H272	>=75 - <=85%

Component	Classification	Concentration
Calcium chloride,anhydrous		
CAS No. : 10043-52-4 EC No. : 233-140-8	**As Per EC Regulation 1272/2008** Eye Irrit. 2A H319	>=3 - <=5%

Component	Classification	Concentration
Manganese sulphate		
CAS No. : 10034-96-5 EC No. : 232-089-9 Index-No : 025-003-00-4	**As Per EC Regulation 1272/2008** STOT RE 2; Aquatic Chronic 2 H373; H411	>=0.2 - <=0.4%

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	>=0.07 - <=0.1%

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	>=0.01 - <=0.03%

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	>=0.05 - <=0.07%

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, 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. 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 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: 3.5-4.5 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** No data available **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
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** No data available
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**
	14.1 UN-No ADNR : 1486 ADR : 1486 IATA_C : 1486 IATA_P : 1486 IMDG : 1486 RID : 1486 **14.2 UN proper shipping name** ADNR : Potassium nitrate ADR : Potassium nitrate IATA_C : Potassium nitrate IATA_P : Potassium nitrate IMDG : Potassium nitrate RID : Potassium nitrate **14.3 Transport hazard class(es)** ADNR : 5.1 ADR : 5.1 IATA_C : 5.1 IATA_P : 5.1 IMDG : 5.1 RID : 5.1 **14.4 Packaging group** ADNR : III ADR : III IATA_C : III IATA_P : III IMDG : III RID : III **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.
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.	