


Name of the Product		Legionella Growth Supplement (Twin Pack)
Code No.		MS 2016A
Section 1	Chemical Identification	
	Code No.	: MS 2016A
	Name of the Product	: Legionella Growth Supplement (Twin Pack)
	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	
	<p>2.1 Classification of the substance or mixture CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]</p> <p>Skin corrosion or irritation, (Category 2), H315 Sensitisation, Skin, (Category 1), H317 Serious eye damage or eye irritation, (Category 2A), H319 Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335 Acute toxicity, Inhaled, (Category 3), H331 Acute toxicity, Oral, (Category 2), H300 Hazardous to the aquatic environment, long term hazard, (Category 2), H411</p> <p>2.2 Label elements Labeling according to Regulation (EC) No.1272/2008</p> <div style="text-align: center;">  </div> <p>Pictogram</p> <p>Signal word Danger</p> <p>Hazard statements</p> <p>H315 : Causes skin irritation</p> <p>H317 : May cause an allergic skin reaction</p> <p>H319 : Causes serious eye irritation</p> <p>H335 : May cause respiratory irritation</p> <p>H331 : Toxic if inhaled</p> <p>H300 : Fatal if swallowed</p> <p>H411 : Toxic to aquatic life with long lasting effects</p> <p>Precautionary Statement(s)</p> <p>P261 : Avoid breathing dust/fume/gas/mist/vapours/spray.</p> <p>P264 : Wash hands thoroughly after handling. Wash skin thoroughly after handling.</p> <p>P280 : Wear protective gloves/protective clothing/eye protection/face protection.</p> <p>P301+P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician</p> <p>P304+P340+P311 : IF INHALED: Remove person to fresh air and keep comfortable for breathing. Call a POISON CENTER/doctor.</p>	



	<p>P302+P352 : IF ON SKIN: wash with plenty of soap and water.</p> <p>P273 : Avoid release to the environment.</p> <p>2.3 Other Hazards None</p>
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Section 3 **Composition/Information On Ingredients**

3.1 Mixture		
Component	Classification	Concentration
Cysteine hydrochloride		
CAS No. :52-89-1 EC No. :200-157-7	As Per EC Regulation 1272/2008 Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335	>= -
Component	Classification	Concentration
Sodium selenite		
CAS No. :10102-18-8 EC No. :233-267-9 Index NO. : 034-003-00-3	As Per EC Regulation 1272/2008 Acute Tox.oral. 2; Skin Sens. 1; Acute Tox. inhal. 3; Aquatic Chronic 2 H300; H317; H331; H411	>=1 - <=10%
Refer Section 16 for complete statement of H codes and its classification		

Section 4 **First - Aid Measures**

4.1	<p>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.</p>
4.2	<p>Most important symptoms and effects, both acute and delayed No data available.</p>
4.3	<p>Indication of immediate medical attention and special treatment needed No data available</p>



Section 5	Fire Fighting Measures
	<p>5.1 Extinguishing media <i>Suitable extinguishing media</i> Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide. <i>Unsuitable extinguishing media</i> No data available.</p> <p>5.2 Special hazards arising from the substance or mixture Nature of decomposition products not known.</p> <p>5.3 Precautions for fire-fighters Wear self contained breathing apparatus for fire fighting if necessary</p> <p>5.4 Further information No data available</p>
Section 6	Accidental Release Measures
	<p>6.1 Personal precautions, protective equipment and emergency procedures Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.</p> <p>6.2 Environmental precautions Prevent further leakage or spillage if safe to do so. Do not let product enter drains.</p> <p>6.3 Methods and materials for containment and cleaning up Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.</p> <p>6.4 Reference to other sections For disposal see Section 13.</p>
Section 7	Handling and Storage
	<p>7.1 Precautions for safe handling Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.</p> <p>7.2 Conditions for safe storage, including any incompatibilities Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Containers which are opened must be carefully resealed and kept upright to prevent leakage. Recommended Storage Temperature : On receipt store between 2-8°C</p> <p>7.3 Specific end uses Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.</p>
Section 8	Exposure Controls / Personal Protection
	<p>8.1 Control parameters Components with workplace control parameters</p> <p>8.2 Exposure controls Appropriate engineering controls Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products. Personal protective equipment Hygiene measure Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product. Eye/face protection Tightly fitting safety goggles; Faceshield (8-inch minimum). Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166 (EU).</p>



	<p>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.</p> <p>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.</p> <p>Respiratory protection Where risk assessment shows air-purifying respirators are appropriate use a full-face respirator with multi-purpose combination (US) or type ABEK (EN 14387) respirator cartridges as a backup to engineering controls. If the respirator is the sole means of protection, use a full-face supplied air respirator. Use respirators and components tested and approved under appropriate government standards such as NIOSH (US) or CEN (EU).</p> <p>Environment exposure controls Do not empty into drains.</p>																																				
Section 9	Physical and Chemical Properties																																				
	<p>9.1 Information on basic physical and chemical properties</p> <table border="0"> <tr> <td>Appearance</td> <td>Part A: Colourless crystalline powder Part B: Clear colourless solution</td> </tr> <tr> <td>Odour</td> <td>No data available</td> </tr> <tr> <td>Odour Threshold</td> <td>No data available</td> </tr> <tr> <td>pH</td> <td>No data available</td> </tr> <tr> <td>Melting/freezing point</td> <td>No data available</td> </tr> <tr> <td>Initial boiling point and boiling range</td> <td>No data available</td> </tr> <tr> <td>Flash point</td> <td>No data available</td> </tr> <tr> <td>Flammability (Solid, gas)</td> <td>No data available</td> </tr> <tr> <td>Vapour pressure</td> <td>No data available</td> </tr> <tr> <td>Relative density</td> <td>No data available</td> </tr> <tr> <td>Water Solubility</td> <td>No data available</td> </tr> <tr> <td>Partition coefficient: n-octanol/water</td> <td>No data available</td> </tr> <tr> <td>Autoignition Temperature</td> <td>No data available</td> </tr> <tr> <td>Viscosity</td> <td>No data available</td> </tr> <tr> <td>Explosive properties</td> <td>No data available</td> </tr> <tr> <td>Oxidizing properties</td> <td>No data available</td> </tr> <tr> <td>Vapour density</td> <td>No data available</td> </tr> <tr> <td>Thermal decomposition</td> <td>No data available</td> </tr> </table> <p>9.2 Other safety information No data available</p>	Appearance	Part A: Colourless crystalline powder Part B: Clear colourless solution	Odour	No data available	Odour Threshold	No data available	pH	No data available	Melting/freezing point	No data available	Initial boiling point and boiling range	No data available	Flash point	No data available	Flammability (Solid, gas)	No data available	Vapour pressure	No data available	Relative density	No data available	Water Solubility	No data available	Partition coefficient: n-octanol/water	No data available	Autoignition 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
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Section 10	Stability and Reactivity																																				
	<p>10.1 Reactivity No data available</p> <p>10.2 Chemical stability No data available</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 Other Decomposition products not known.</p>
Section 11	Toxicological Information
	<p>11.1 Information on toxicological effects</p> <p>Acute toxicity No data available</p> <p>Skin corrosion/irritation Mixture may cause skin irritation.</p> <p>Serious eye damage/eye irritation Mixture may cause eye irritation.</p> <p>Respiratory or skin sensitisation Mixture may cause skin sensitisation.</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- single exposure No data available</p> <p>Specific target organ toxicity - repeated exposure No data available</p> <p>Aspiration hazard No data available</p> <p>Potential Health Effects Inhalations REFER SECTION 2</p> <p>Skin REFER SECTION 2</p> <p>Eyes REFER SECTION 2</p> <p>Ingestion REFER SECTION 2</p> <p>Additional Information RTECS : Not Available</p> <p>11.2 Components</p> <p>L-Cysteine Hydrochloride <i>Acute oral Toxicity</i> Mouse Intravenous LD50: 771 mg/kg <i>Mouse</i> Intraperitoneal LD50: 1,250 mg/kg <i>Germ cell mutagenicity</i> Mouse(male) Result: Negative</p> <p>Additional Information RTECS: HA2275000</p>



Section 12	Ecological Information
	<p>12.1 Toxicity No data available</p> <p>12.2 Persistence and degradability No data available</p> <p>12.3 Bioaccumulative potential No data available</p> <p>12.4 Mobility in soil No data available</p> <p>12.5 PBT and vPvB assessment PBT/vPvB assessment was not conducted as chemical safety assessment is not required.</p> <p>12.6 Other adverse effects No data available</p>
Section 13	Disposal Considerations
	<p>13.1 Waste treatments methods Product Offer surplus and non-recyclable solutions to a licenced disposal company. Contact a licenced professional waste disposal service to dispose off this material.</p> <p>13.2 Contaminated packaging Dispose of as unused product.</p>
Section 14	Transport Information
	<p>14.1 UN-No ADNR:2630 ADR:2630 IATA_C:2630 IATA_P:2630 IMDG:2630 RID :2630</p> <p>14.2 UN proper shipping name ADNR : Selenate or Selenite ADR : Selenate or Selenite IATA_C : Selenate or Selenite IATA_P : Selenate or Selenite IMDG : Selenate or Selenite RID : Selenate or Selenite</p> <p>14.3 Transport hazard class (es) ADNR:6.1 ADR:6.1 IATA_C:6.1 IATA_P: 6.1 IMDG:6.1 RID:6.1</p> <p>14.4 Packaging group ADNR:I ADR : I IATA_C : I IATA_P : I IMDG: I RID: I</p> <p>14.5 Environmental hazards ADNR : No ADR : No IMDG : Marine pollutant No IATA_C : No IATA_P : No RID : No</p> <p>14.6 Special precautions for use No data available</p>
Section 15	Regulatory Information
	<p>This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.</p> <p>15.1 Safety health and environment regulations/legislation specific for the substance or mixture No data available</p> <p>15.2 Chemical Safety Assessment No data available</p>
Section 16	Other Information
	<p>H300: Fatal if swallowed</p> <p>H315: Causes skin irritation</p> <p>H317: May cause an allergic skin reaction</p> <p>H319: Causes serious eye irritation</p>



Dehydrated Culture Media
Bases / Media Supplements

Material Safety Data Sheet

H331: Toxic if inhaled
H335: May cause respiratory irritation
H411: Toxic to aquatic life with long lasting effects
Acute Tox. inhal. 3: Acute toxicity, inhaled, Category 3
Acute Tox. oral 2: Acute toxicity, oral, Category 2
Aquatic Chronic 2: Hazardous to the aquatic environment, long term hazard, Category 2
Eye Irrit. 2A: Serious eye damage or eye irritation, Category 2A
Skin Irrit. 2: Skin corrosion or irritation, Category 2
Skin Sens. 1: Sensitisation, Skin, Category 1
STOT SE 3: Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3.

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.