


Name of the Product Code No. Section 1 : <b>Chemical Identification</b>		<b>Listeria Selective Supplement II</b> <b>MS 2063</b>
Code No. : MS 2063 Name of the Product : Listeria Selective Supplement II 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	<b>Hazards Identification</b>	
	<p><b>2.1 Classification of the substance or mixture</b> <b>CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]</b></p> <p>Acute toxicity, Oral, (Category 1), H300 Serious eye damage or eye irritation, (Category 1), H318 Germ cell mutagenicity, (Category 2), H341 Reproductive toxicity, (Category 1A), H360D Hazardous to the aquatic environment, long term hazard, (Category 2), H411 Sensitisation, respiratory, (Category 1), H334</p> <p><b>2.2 Label elements</b> <b>Labeling according to Regulation (EC) No.1272/2008</b></p>  <p>Pictogram Signal word Danger <b>Hazard Statement(s)</b></p> <p>H300: Fatal if swallowed H318: Causes serious eye damage H334 : May cause allergy or asthma symptoms or breathing difficulties if inhaled H341: Suspected of causing genetic defects H360D : May damage the unborn child H411: Toxic to aquatic life with long lasting effects</p> <p><b>Precautionary Statement(s)</b></p> <p>P201: Obtain special instructions before use P261 : Avoid breathing dust/fume/gas/mist/vapours/spray P273 : Avoid release to the environment P280 : Wear protective gloves/protective clothing/eye protection/face protection P301+P310 : IF SWALLOWED: Immediately call a POISON CENTER or doctor/physician. P305+P351+P338 : IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P308+P313 : IF exposed or concerned: Get medical advice/attention P342+P311 : IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician</p> <p><b>2.3 Other Hazards</b> None</p>	
Section 3	<b>Composition/Information On Ingredients</b>	
	<b>3.1 Mixture</b>	



Component	Classification	Concentration
Cycloheximide		
CAS No. : 66-81-9 EC No. : 200-636-0 Index No.;613-140-00-8	<b>As Per EC Regulation 1272/2008</b> Acute Tox. oral 1,2; Skin Irrit. 2; Muta.2; Repr. 1B; Aquatic Chronic 2,H300; H315; H341; H360D; H411	>=10 - <=20%
Component	Classification	Concentration
Nalidixic acid		
CAS No. : 389-08-2 EC No. : 206-864-7	<b>As Per EC Regulation 1272/2008</b> Resp. Sens. 1 H302	>=10 - <=40%
Component	Classification	Concentration
Acriflavine hydrochloride		
CAS No. : 8063-24-9	<b>As Per EC Regulation 1272/2008</b> Acute Tox.oral 4; Eye Dam. 1; AquaticChronic 2 H302; H318; H411	>=10 - <=20%

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

Section 4 **First - Aid Measures**

<b>4.1</b>	<p><b>Description of first aid measures</b> <i>General advice</i> Consult a physician. Show this safety data sheet to the doctor in attendance. <i>If inhaled</i> If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician. <i>In case of skin contact</i> Wash off with soap and plenty of water. Consult a physician. <i>In case of eye contact</i> Rinse immediately with plenty of water for at least 15 minutes. Consult a physician. <i>If swallowed</i> Never give anything by mouth to an unconscious person. Rinse mouth with water. Consult a physician.</p>
<b>4.2</b>	<p><b>Most important symptoms and effects, both acute and delayed</b>  No data available.</p>
<b>4.3</b>	<p><b>Indication of immediate medical attention and special treatment needed</b> No data available</p>

Section 5 **Fire Fighting Measures**

<b>5.1</b>	<p><b>Extinguishing media</b> <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>
<b>5.2</b>	<p><b>Special hazards arising from the substance or mixture</b> Hazardous combustible gases or vapour may develop in the event of fire.</p>



	<p><b>5.3 Precautions for fire-fighters</b> Wear self contained breathing apparatus for fire fighting if necessary</p> <p><b>5.4 Further information</b> No data available</p>
Section 6	<b>Accidental Release Measures</b>
	<p><b>6.1 Personal precautions, protective equipment and emergency procedures</b> Wear respiratory protection. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. Evacuate personnel to safe areas.</p> <p><b>6.2 Environmental precautions</b> Prevent further leakage or spillage if safe to do so. Do not let product enter drains.</p> <p><b>6.3 Methods and materials for containment and cleaning up</b> Soak up with inert absorbent material. Keep in suitable, closed containers for disposal.</p> <p><b>6.4 Reference to other sections</b> For disposal see Section 13.</p>
Section 7	<b>Handling and Storage</b>
	<p><b>7.1 Precautions for safe handling</b> Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. Normal measures for preventive fire protection.</p> <p><b>7.2 Conditions for safe storage, including any incompatibilities</b> 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. <b>Recommended Storage Temperature</b> : On receipt store between 2-8°C</p> <p><b>7.3 Specific end uses</b> Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.</p>
Section 8	<b>Exposure Controls / Personal Protection</b>
	<p><b>8.1 Control parameters</b> Components with workplace control parameters</p> <p><b>8.2 Exposure controls</b> <b>Appropriate engineering controls</b> Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products. <b>Personal protective equipment</b> <b>Hygiene measure</b> Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product. <b>Eye/face protection</b> 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). <b>Skin protection</b> 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. <b>Body protection</b> 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. <b>Respiratory protection</b> 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.</p>



	<p>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). <b>Environment exposure controls</b> Do not empty into drains.</p>																																				
Section 9	<p><b>Physical and Chemical Properties</b></p>																																				
	<p><b>9.1 Information on basic physical and chemical properties</b></p> <table border="0"> <tr><td>Appearance</td><td>Reddish Brown Homogenous powder</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><b>9.2 Other safety information</b> No data available</p>	Appearance	Reddish Brown Homogenous powder	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	<p><b>Stability and Reactivity</b></p>																																				
	<p><b>10.1 Reactivity</b> No data available</p> <p><b>10.2 Chemical stability</b> No data available</p> <p><b>10.3 Possibility of hazardous reactions</b> No data available</p> <p><b>10.4 Conditions to avoid</b> No data available</p> <p><b>10.5 Incompatible materials</b> No data available</p> <p><b>10.6 Hazardous decomposition products</b> Other Decomposition products not known.</p>																																				



Section 11	Toxicological Information
	<p><b>11.1 Information on toxicological effects</b></p> <p><b>Acute toxicity</b> No data available</p> <p><b>Skin corrosion/irritation</b> Mixture may cause skin irritation.</p> <p><b>Serious eye damage/eye irritation</b> Mixture may cause eye irritation.</p> <p><b>Respiratory or skin sensitisation</b> Mixture may cause skin sensitisation.</p> <p><b>Germ cell mutagenicity</b> No data available</p> <p><b>Carcinogenicity</b> 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><b>Reproductive toxicity</b> No data available</p> <p><b>Specific target organ toxicity- single exposure</b> No data available</p> <p><b>Specific target organ toxicity - repeated exposure</b> No data available</p> <p><b>Aspiration hazard</b> No data available</p> <p><b>Potential Health Effects Inhalations</b> REFER SECTION 2</p> <p><b>Skin</b> REFER SECTION 2</p> <p><b>Eyes</b> REFER SECTION 2</p> <p><b>Ingestion</b> REFER SECTION 2</p> <p><b>Additional Information</b> RTECS : Not Available</p> <p><b>11.2 Components</b></p> <p><b>Acute oral Toxicity</b> Rat LD50: 2mg/kg</p> <p><b>Skin Corrosion/Irritation</b> Skin-rabbit Result: Skin irritation: 24 h</p> <p><b>Germ cell mutagenicity</b> Lab experiments have shown mutagenic effects. Invitro tests showed mutagenic effects.</p> <p><b>Reproductive toxicity</b> May cause congenital malformation in the fetus. Presumed human reproductive toxicant. Liver-irregularities-based on human evidence.</p> <p><b>Additional Information</b> RTECS:MA4375000 Acriflavine Hydrochloride</p> <p><b>Acute Toxicity</b> LD50 Oral Rat: 1,048 mg/kg</p> <p><b>Skin corrosion/irritation</b> Skin-Rabbit</p>



	<p>Result: No irritation <i>Serious eye damage/eye irritation</i> Eyes-Rabbit Result:Irritation Causes serious eye irritation <b>Additional information</b> RTECS: No data available Causes cardiovascular effects, Central nervous system depression, Respiratory disorders</p> <p><b>Nalidixic acid</b> <i>Acute Oral Toxicity</i> Rat LD50 :2040mg/kg Mouse LD50 :572mg/kg <i>Acute Intraperitoneal Toxicity</i> Rat LD50 :319mg/kg Mouse LD50 :600mg/kg <i>Acute Intravenous Toxicity</i> Rat LD50 :1160mg/kg Mouse LD50 :101mg/kg <i>Acute Dermal Toxicity</i> Rat LD50 :1584mg/kg Mouse LD50 :500mg/kg</p> <p><b>Additional Information</b> RTECS: QN2885000</p>
Section 12	<b>Ecological Information</b>
	<p><b>12.1 Toxicity</b> No data available</p> <p><b>Components</b> <b>Acriflavine hydrochloride</b> Toxicity to Fish Leuciscus idus (Golden orfe) LC50 :1 - 10 mg/l ;48 h Bluegill/Sunfish LC50: 13.5 mg/l; 48 h Rainbow trout LC50 : 19.9 mg/l; 48 h</p> <p><b>12.2 Persistence and degradability</b> No data available</p> <p><b>12.3 Bioaccumulative potential</b> No data available</p> <p><b>12.4 Mobility in soil</b> No data available</p> <p><b>12.5 PBT and vPvB assessment</b> PBT/vPvB assessment was not conducted as chemical safety assessment is not required.</p> <p><b>12.6 Other adverse effects</b> No data available</p>
Section 13	<b>Disposal Considerations</b>
	<p><b>13.1 Waste treatments methods</b> <b>Product</b> 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><b>13.2 Contaminated packaging</b> Dispose of as unused product.</p>



Section 14	<p><b>Transport Information</b></p> <p><b>14.1 UN-No</b> ADNR:2811 ADR:2811 IATA_C:2811 IATA_P:2811 IMDG:2811 RID:2811</p> <p><b>14.2 UN proper shipping name</b> ADNR : Toxic solids, organic, n.o.s. ADR : Toxic solids, organic, n.o.s. IATA_C : Toxic solids, organic, n.o.s. IATA_P : Toxic solids, organic, n.o.s. IMDG : Toxic solids, organic, n.o.s. RID : Toxic solids, organic, n.o.s.</p> <p><b>14.3 Transport hazard class (es)</b> ADNR:6.1 ADR:6.1 IATA_C:6.1 IATA_P:6.1 IMDG:6.1 RID:6.1</p> <p><b>14.4 Packaging group</b> ADNR:I ADR:I IATA_C:I IATA_P:I IMDG:I RID:I</p> <p><b>14.5 Environmental hazards</b> ADNR : No ADR : No IMDG : Marine pollutant No IATA_C : No IATA_P : No RID : No</p> <p><b>14.6 Special precautions for use</b> No data available</p>
Section 15	<p><b>Regulatory Information</b></p> <p>This safety datasheet complies with the requirements of Regulation (EC) No. 1907/2006.</p> <p><b>15.1 Safety health and environment regulations/legislation specific for the substance or mixture</b> No data available</p> <p><b>15.2 Chemical Safety Assessment</b> No data available</p>
Section 16	<p><b>Other Information</b></p> <p>Text of H codes and classification mentioned in section 3</p> <p>H300 : Fatal if swallowed H302 : Harmful if swallowed H315 : Causes skin irritation H318 : Causes serious eye damage : H341 : Suspected of causing genetic defects H360D : May damage the unborn child H411 : Toxic to aquatic life with long lasting effects</p> <p>Acute Tox. oral 1,2 : Acute toxicity, oral, Category 1, 2 Acute Tox.oral 4 : Acute toxicity, oral, Category 4 Aquatic Chronic 2 : Hazardous to the aquatic environment, long term hazard, Category 2 Eye Dam. 1 : Serious eye damage or eye irritation, Category 1 Muta. 2 : Germ cell mutagenicity, Category 2 Repr. 1B : Reproductive toxicity, Category 1B Resp. Sens. 1 : Sensitisation, respiratory, Category 1 Skin Irrit. 2 : Skin corrosion or irritation, Category 2</p> <p><b>Further Information</b></p> <p>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.</p>