




Dehydrated Culture Media
Bases / Media Supplements

Material Safety Data Sheet

Name of the Product	Listeria Selective Supplement II
Code No.	MS 2063I
Section 1	Chemical Identification
Code No.	: MS 2063I
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	Hazards Identification
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	<p>2.1 Classification of the substance or mixture CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]</p> <p>Acute toxicity, Oral, (Category 1), H300 Serious eye damage or eye irritation, (Category 1), H318 Sensitisation, respiratory, (Category 1), H334 Germ cell mutagenicity, (Category 2), H341 Hazardous to the aquatic environment, long term hazard, (Category 2), H411 Reproductive toxicity, (Category 1A), H360D</p> <p>2.2 Label elements Labeling according to Regulation (EC) No.1272/2008</p> <div style="text-align: center;">  </div> <p>Pictogram Signal word Danger Hazard Statement(s)</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>Precautionary Statement(s)</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>2.3 Other Hazards None</p>
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Section 3	<p>Composition/Information On Ingredients</p> <p>3.1 Mixture</p> <table border="1" data-bbox="512 477 1449 680"> <thead> <tr> <th>Component</th> <th>Classification</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td colspan="3">Actidione (Cycloheximide)</td> </tr> <tr> <td>CAS No. : 66-81-9 EC No. : 200-636-0 Index No.;613-140-00-8</td> <td>As Per EC Regulation 1272/2008 Acute Tox. oral 1,2; Skin Irrit. 2; Muta.2; Repr. 1B; Aquatic Chronic 2,H300; H315; H341; H360D; H411</td> <td>>=50 - <=60%</td> </tr> </tbody> </table> <table border="1" data-bbox="512 710 1449 882"> <thead> <tr> <th>Component</th> <th>Classification</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td colspan="3">Nalidixic acid</td> </tr> <tr> <td>CAS No. : 389-08-2 EC No. : 206-864-7</td> <td>As Per EC Regulation 1272/2008 Resp. Sens. 1 H302</td> <td>>=40 - <=50%</td> </tr> </tbody> </table> <table border="1" data-bbox="512 911 1449 1075"> <thead> <tr> <th>Component</th> <th>Classification</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td colspan="3">Acriflavine hydrochloride</td> </tr> <tr> <td>CAS No. : 8063-24-9</td> <td>As Per EC Regulation 1272/2008 Acute Tox.oral 4; Eye Dam. 1; AquaticChronic 2 H302; H318; H411</td> <td>>=10 - <=20%</td> </tr> </tbody> </table> <p>Refer Section 16 for complete statement of H codes and its classification</p>	Component	Classification	Concentration	Actidione (Cycloheximide)			CAS No. : 66-81-9 EC No. : 200-636-0 Index No.;613-140-00-8	As Per EC Regulation 1272/2008 Acute Tox. oral 1,2; Skin Irrit. 2; Muta.2; Repr. 1B; Aquatic Chronic 2,H300; H315; H341; H360D; H411	>=50 - <=60%	Component	Classification	Concentration	Nalidixic acid			CAS No. : 389-08-2 EC No. : 206-864-7	As Per EC Regulation 1272/2008 Resp. Sens. 1 H302	>=40 - <=50%	Component	Classification	Concentration	Acriflavine hydrochloride			CAS No. : 8063-24-9	As Per EC Regulation 1272/2008 Acute Tox.oral 4; Eye Dam. 1; AquaticChronic 2 H302; H318; H411	>=10 - <=20%
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Section 4	<p>First - Aid Measures</p> <p>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.</p> <p>4.2 Most important symptoms and effects, both acute and delayed No data available.</p> <p>4.3 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 <i>Appropriate engineering controls</i> Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products. <i>Personal protective equipment</i> <i>Hygiene measure</i> Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product. <i>Eye/face protection</i> 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). <i>Skin protection</i> 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</p>



	<p>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>																																				
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	<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 Acriflavine Hydrochloride <i>Acute oral Toxicity</i> Rat LD50: 1048mg/kg</p>



	<p><i>Skin Corrosion/Irritation</i> Skin-rabbit Result: no irritation <i>Serious eye damage/eye irritation</i> Eyes-Rabbit Result:Irritation Causes serious eye irritation Additional Information RTECS:No data available Causes cardiovascular effects, Central nervous system depression, Respiratory disorders.</p> <p>Cycloheximide <i>Acute oral Toxicity</i> Rat LD50: 2 mg/kg <i>Skin Corrosion/Irritation</i> Skin-rabbit Result: skin irritation :24hr <i>Germ cell mutagenicity</i> Lab experiments have shown mutagenic effects Invitro tests showed mutagenic effects. <i>Reproductive toxicity</i> May cause congenital malformation in the fetus. Presumed human reproductive toxicant. Liver-irregularities-based on human evidence.</p> <p>Additional Information RTECS:MA4375000</p> <p>Nalidixic acid <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>Additional Information RTECS: QN2885000</p>
Section 12	Ecological Information
	<p>12.1 Toxicity No data available</p> <p>Components Acriflavine hydrochloride 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>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:2811 ADR:2811 IATA_C:2811 IATA_P:2811 IMDG:2811 RID:2811</p> <p>14.2 UN proper shipping name 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>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>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>



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Acute Tox. oral 1 : Acute toxicity, oral, Category 1
Acute Tox. oral 2 : Acute toxicity, oral, Category 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

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.