



Dehydrated Culture Media  
Bases / Media Supplements

# Material Safety Data Sheet

Name of the Product		Friis Supplement												
Code No.		<b>MS 2317</b>												
Section 1	<b>Chemical Identification</b>													
	Code No.	:	MS 2317											
	Name of the Product	:	Friis Supplement											
	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>            Skin corrosion or irritation, (Category 2), H315            Sensitisation, Skin, (Category 1), H317            Serious eye damage or eye irritation, (Category 2A), H319 Sensitisation, respiratory, (Category 1), H334            Specific target organ toxicity, single exposure, Respiratory tract irritation, (Category 3), H335</p>													
	<p><b>2.2 Label elements</b>  <b>Labeling according to Regulation (EC) No.1272/200</b></p>													
	Pictogram													
	Signal word	Danger												
	Hazard Statement (s)													
	H315	Causes skin irritation												
	H317	May cause an allergic skin reaction												
	H319	Causes serious eye irritation												
	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled												
	H335	May cause respiratory irritation												
	Precautionary Statement(s)													
	P261	Avoid breathing dust/fume/gas/mist/vapours/spray.												
	P280	Wear protective gloves/protective clothing/eye protection/face protection.												
	P302 + P352	IF ON SKIN: wash with plenty of soap and water.												
	P305+P351+P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.												
	P333 + P313	IF SKIN irritation or rash occurs: Get medical advice/attention.												
	P337 + P313	IF eye irritation persists: Get medical advice/attention.												
	P342 + P311	IF experiencing respiratory symptoms: call a POISON CENTER or doctor/physician.												
	P312	Call a POISON CENTER or doctor/physician if you feel unwell.												
	<b>2.3 Other Hazards</b>													
	None													
Section 3	<b>Composition/Information On Ingredients</b>													
	<b>3.1 Mixture</b>													
	<table border="1"> <thead> <tr> <th>Component</th> <th>Classification</th> <th>Concentration</th> </tr> </thead> <tbody> <tr> <td>Methicillin</td> <td></td> <td></td> </tr> <tr> <td>CAS No. :</td> <td>132-92-3</td> <td rowspan="2"><b>As Per EC Regulation 1272/2008</b> Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2A; Resp. Sens. 1; STOT SE 3 H315; H317; H319; H334; H335</td> </tr> <tr> <td>EC No. :</td> <td>205-083-9</td> </tr> </tbody> </table>			Component	Classification	Concentration	Methicillin			CAS No. :	132-92-3	<b>As Per EC Regulation 1272/2008</b> Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2A; Resp. Sens. 1; STOT SE 3 H315; H317; H319; H334; H335	EC No. :	205-083-9
Component	Classification	Concentration												
Methicillin														
CAS No. :	132-92-3	<b>As Per EC Regulation 1272/2008</b> Skin Irrit. 2; Skin Sens. 1; Eye Irrit. 2A; Resp. Sens. 1; STOT SE 3 H315; H317; H319; H334; H335												
EC No. :	205-083-9													
			>=40 - <=50%											



Component		Classification	Concentration
Nalidixic acid			
CAS No. :	389-08-2	<b>As Per EC Regulation 1272/2008</b> Acute Tox.oral 4 H302	>=1 - <=5%
EC No. :	206-864-7		
Refer Section 16 for complete statement of H codes and its classification.			
Section 4	<b>First - Aid Measures</b>		
	<p><b>4.1 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 with plenty of soap and 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> <p><b>4.2 Most important symptoms and effects, both acute and delayed</b> No data available.</p> <p><b>4.3 Indication of immediate medical attention and special treatment needed</b> No data available.</p>		
Section 5	<b>Fire Fighting Measures</b>		
	<p><b>5.1 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> <p><b>5.2 Special hazards arising from the substance or mixture</b> Nature of decomposition products not known.</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.</p> <p><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.</p> <p><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).</p> <p><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.</p> <p><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.</p> <p><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. 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><b>Environment exposure controls</b> Do not empty into drains.</p>																				
Section 9	<b>Physical and Chemical Properties</b>																				
	<p><b>9.1 Information on basic physical and chemical properties</b></p> <table border="0"> <tr> <td>Appearance</td> <td>White homogeneous 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> </table>	Appearance	White homogeneous 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
Appearance	White homogeneous 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																				



	<p>Water Solubility No data available</p> <p>Partition coefficient: n-octanol/water No data available</p> <p>Autoignition Temperature No data available</p> <p>Viscosity No data available</p> <p>Explosive properties No data available</p> <p>Oxidizing properties No data available</p> <p>Vapour density No data available</p> <p>Thermal decomposition No data available</p> <p><b>9.2 Other safety information</b> No data available</p>
Section 10	<b>Stability and Reactivity</b>
	<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	<b>Toxicological Information</b>
	<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> No data available</p> <p><b>Respiratory or skin sensitisation</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>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</b></p> <p><b>Inhalation</b> REFER SECTION 2</p> <p><b>Skin</b> REFER SECTION 2</p> <p><b>Eye</b> REFER SECTION 2</p>



	<p><b>Ingestion</b> REFER SECTION 2 <b>Additional Information</b> RTECS : No available</p> <p><b>11.2 Components</b></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 : 319 mg/kg Mouse LD50: 600 mg/kg <i>Acute Intravenous Toxicity</i> Rat LD50 :1160 mg/kg Mouse LD50: 101 mg/kg <i>Acute Dermal Toxicity</i> Rat LD50: 1584 mg/kg Mouse LD50 : 500 mg/kg <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>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	<b>Transport Information</b>
	<p><b>14.1 UN-No</b> ADNR : ADR : IATA_C : IATA_P : IMDG : RID :</p> <p><b>14.2 UN proper shipping name</b> ADNR : Not dangerous goods ADR : Not dangerous goods IATA_C : Not dangerous goods IATA_P : Not dangerous goods IMDG : Not dangerous goods RID : Not dangerous goods</p>



	<p><b>14.3 Transport hazard class(es)</b> ADNR : - ADR : -IATA_C : -IATA_P : -IMDG : - RID : -</p> <p><b>14.4 Packaging group</b> ADNR : ADR : IATA_C : IATA_P : IMDG : RID :</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	<b>Regulatory Information</b>																								
	<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	<b>Other Information</b>																								
	<p>Text of H codes and classification mentioned in section 3</p> <table> <tr><td>H302</td><td>Harmful if swallowed</td></tr> <tr><td>H315</td><td>Causes skin irritation</td></tr> <tr><td>H317</td><td>May cause an allergic skin reaction</td></tr> <tr><td>H319</td><td>Causes serious eye irritation</td></tr> <tr><td>H334</td><td>May cause allergy or asthma symptoms or breathing difficulties if inhaled</td></tr> <tr><td>H335</td><td>May cause respiratory irritation</td></tr> <tr><td>Acute Tox.oral 4</td><td>Acute toxicity, oral, Category 4</td></tr> <tr><td>Eye Irrit. 2A</td><td>Serious eye damage or eye irritation, Category 2A</td></tr> <tr><td>Resp. Sens. 1</td><td>Sensitisation, respiratory, Category 1</td></tr> <tr><td>Skin Irrit. 2</td><td>Skin corrosion or irritation, Category 2</td></tr> <tr><td>Skin Sens. 1</td><td>Sensitisation, Skin, Category 1</td></tr> <tr><td>STOT SE 3</td><td>Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3</td></tr> </table> <p><b>Further Information</b> 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>	H302	Harmful if swallowed	H315	Causes skin irritation	H317	May cause an allergic skin reaction	H319	Causes serious eye irritation	H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled	H335	May cause respiratory irritation	Acute Tox.oral 4	Acute toxicity, oral, Category 4	Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A	Resp. Sens. 1	Sensitisation, respiratory, Category 1	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
H302	Harmful if swallowed																								
H315	Causes skin irritation																								
H317	May cause an allergic skin reaction																								
H319	Causes serious eye irritation																								
H334	May cause allergy or asthma symptoms or breathing difficulties if inhaled																								
H335	May cause respiratory irritation																								
Acute Tox.oral 4	Acute toxicity, oral, Category 4																								
Eye Irrit. 2A	Serious eye damage or eye irritation, Category 2A																								
Resp. Sens. 1	Sensitisation, respiratory, Category 1																								
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																								