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| Code No. Section 1 : | Name of the Product Chemical Identification Code No. Name of the Product Produced Address Tel. No. | Synthetic Complete Supplement Mixture (SC) w/o LEU G1153 : G1153 Synthetic Complete Supplement Mixture (SC) w/o LEU : Central Drug House Pvt. Ltd. : 7/28 Vardaan House, Darya Ganj, New Delhi (INDIA) : 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 Serious eye damage or eye irritation, (Category 2A), H319</p> <p>2.2 Label elements Labeling according to Regulation (EC) No.1272/2008</p> <p></p> <p>Pictogram</p> <p>Signal Word Warning</p> <p>H315: Causes skin irritation H319: Causes serious eye irritation</p> <p>Precautionary Statement(s)</p> <p>P280: Wear protective gloves/protective clothing/eye protection/face protection. P264: Wash hands thoroughly after handling. Wash skin thoroughly after handling. P305+P351+P338: IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. P337 + P313: IF eye irritation persists: Get medical advice/attention</p> <p>2.3 Other Hazards None.</p> | |
| Section 3 | Composition/Information On Ingredients | |



3.1 Mixture

| Component | Classification | Concentration |
|---|----------------|---------------|
| Adenine | | |
| CAS No. :73-24-5 EC No. :200-796-1 Molecular Formul: C ₅ H ₅ N ₅ Molecular Weight :135.13 | | >= - |

| Component | Classification | Concentration |
|--|----------------|---------------|
| L-Alanine | | |
| CAS No. :56-41-7 EC No. :200-273-8 MolecularFormul: C ₃ H ₇ NO ₂ Molecular Weight :89.09 | | >= - |

| Component | Classification | Concentration |
|---|----------------|---------------|
| L-Arginine monohydrochloride | | |
| CAS No. : 1119-34-2 EC No. : 214-275-1 MolecularFormula:C ₆ H ₁₄ N ₄ O ₂ .HCl MolecularWeight : 210.66 | | >= - |

| Component | Classification | Concentration |
|---|----------------|---------------|
| L-Asparagine monohydrate | | |
| CAS No. : 5794-13-8 EC No. : 200-735-9 MolecularFormula:C ₄ H ₈ N ₂ O ₃ .H ₂ O MolecularWeight : 150.13 | | >= - |

| Component | Classification | Concentration |
|--|----------------|---------------|
| L-Aspartic acid | | |
| CAS No. : 56-84-8 EC No. : 200-291-6 MolecularFormula :C ₄ H ₇ NO ₄ MolecularWeight : 133.10 | | >= - |

| Component | Classification | Concentration |
|--|----------------|---------------|
| L-Cysteine hydrochloride monohydrate | | |
| CAS No. : 7048-04-6 EC No. : 200-157-7 MolecularFormulaC ₃ H ₇ NO ₂ S.HCl.H ₂ O Molecular Weight : 175.73 | | >= - |



| Component | Classification | Concentration |
|--------------------|----------------|---------------|
| L-Glutamine | | |
| | | >= - |

| Component | Classification | Concentration |
|--|----------------|---------------|
| L-Glutamic acid, Mi-Cert | | |
| CAS No. :56-86-0 EC No. : 200-293-7 MolecularFormula :C ₅ H ₉ NO ₄ MolecularWeight :147.13 | | >= - |

| Component | Classification | Concentration |
|--|----------------|---------------|
| Glycine, Mi-AR/ACS | | |
| CAS No. : 56-40-6 EC No. : 200-272-2 Molecular Formula :C ₂ H ₅ NO ₂ Molecular Weight :75.07 | | >= - |

| Component | Classification | Concentration |
|--|----------------|---------------|
| L-Histidine monohydrochloride monohydrate | | |
| CAS No. : 5934-29-2 EC No. : 211-438-9 MolecularFormulaC ₆ H ₉ N ₃ O ₂ .HCl.H ₂ O Molecular Weight :209.63 | | >= - |

| Component | Classification | Concentration |
|--|----------------|---------------|
| myo-Inositol | | |
| CAS No. : 87-89-8 EC No. :201-781-2 | | >= - |

| Component | Classification | Concentration |
|--|----------------|---------------|
| L-Isoleucine, Plant Culture Tested | | |
| CAS No. : 73-32-5 EC No. : 200-798-2 Molecular Formula :C ₆ H ₁₃ NO ₂ Molecular Weight :131.17 | | >= - |



Material Safety Data Sheet

| Component | Classification | Concentration |
|--|----------------|---------------|
| L-Lysine monohydrochloride | | |
| CAS No. : 657-27-2 EC No. : 211-519-9 Molecular Formula: $C_6H_{14}N_2O_2.HCl$ Molecular Weight :182.65 | | >= - |
| L-Methionine, Plant Culture Tested | | |
| CAS No. : 63-68-3 EC No. : 200-562-9 Molecular Formula : $C_5H_{11}NO_2S$ Molecular Weight :149.21 | | >= - |
| L-Phenylalanine | | |
| CAS No. : 63-91-2 EC No. : 200-568-1 Molecular Formula : $C_9H_9NO_2$ Molecular Weight :165.19 | | >= - |
| L-Proline | | |
| CAS No. : 147-85-3 EC No. : 205-702-2 Molecular Formula : $C_5H_9NO_2$ Molecular Weight :115.13 | | >= - |
| L-Serine, Plant Culture Tested | | |
| CAS No. : 56-45-1 EC No. : 200-274-3 Molecular Formula : $C_3H_7NO_3$ Molecular Weight :105.09 | | >= - |
| L-Threonine | | |
| CAS No. : 72-19-5 EC No. : 200-774-1 Molecular Formula : $C_4H_9NO_3$ Molecular Weight :119.12 | | >= - |



| Component | Classification | Concentration |
|---|-----------------------------|---------------|
| L-Tryptophan | | |
| CAS No. : 73-22-3 EC No. : 200-795-6 MolecularFormula : C ₁₁ H ₁₂ N ₂ O ₂ MolecularWeight : 204.23 | | >= - |
| L-Tyrosine | | |
| CAS No. : 60-18-4 EC No. : 200-460-4 MolecularFormula : C ₉ H ₁₁ NO ₃ MolecularWeight : 181.19 | | >= - |
| Uracil | | |
| CAS No. : 66-22-8 EC No. : 200-621-9 MolecularFormula : C ₄ H ₄ N ₂ O ₂ MolecularWeight : 112.09 | | >= - |
| L-Valine | | |
| CAS No. : 72-18-4 EC No. : 200-773-6 MolecularFormula : C ₅ H ₁₁ NO ₂ MolecularWeight : 117.15 | | >= - |
| Section 4 | First - Aid Measures | |



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| | <p>4.1 Description of first aid measures</p> <p>General advice Consult a physician. Show this safety data sheet to the doctor in attendance.</p> <p>If inhaled If breathed in, move person into fresh air. If not breathing, give artificial respiration. Consult a physician.</p> <p>In case of skin contact Wash off with soap and plenty of water. Consult a physician.</p> <p>In case of eye contact Rinse immediately with plenty of water for at least 15 minutes. Consult a physician.</p> <p>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 The most important known symptoms and effects are described in the labeling (see section 2.2)and/or in section 11.</p> <p>4.3 Indication of immediate medical attention and special treatment needed Treat symptomatically.</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 unknown .</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 Use personnel protective equipment. Avoid dust formation. Avoid breathing vapours, mist or gas. Ensure adequate ventilation.For personalprotection see section 8.</p> <p>6.2 Environmental precautions No special environmental precautions required.</p> <p>6.3 Methods and materials for containment and cleaning up Soak up with inert adsorbent material and dispose of as hazardous waste. Keep in suitable, closedcontainers for disposal.</p> <p>6.4 Reference to other sections For disposal see Section 13.</p> |



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| Section 7 | Handling and Storage |
| | <p>7.1 Precautions for safe handling</p> <p>Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.</p> <p>7.2 Conditions for safe storage, including any incompatibilities</p> <p>Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class(TRGS 510): Non Combustible Liquids</p> <p>Recommended Storage Temperature : Store between 10-30°C</p> <p>7.3 Specific end uses</p> <p>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</p> <p>Components with workplace control parameters</p> <p>8.2 Exposure controls</p> <p>Appropriate engineering controls</p> <p>Avoid contact with skin, eyes and clothing. Wash hands before breaks and immediately after handling the products.</p> <p>Personal protective equipment</p> <p>Hygiene measures</p> <p>Immediately change contaminated clothing. Apply preventive skin protection. Wash hands and face after working with the product.</p> <p>Eye/face protection</p> <p>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</p> <p>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</p> <p>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</p> <p>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</p> |



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| | standards such as NIOSH (US) or CEN (EU). Environment exposure controls Do not let product enter drains. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Section 9 | Physical and Chemical Properties | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | 9.1 Information on basic physical and chemical properties <table><tr><td>Appearance</td><td>White to cream coloured homogeneous free flowing 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>Evaporation rate</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>Autoignition Temperature</td><td>No data available</td></tr><tr><td>Decomposition 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>Thermal decomposition</td><td>No data available</td></tr></table> 9.2 Other safety information No data available | Appearance | White to cream coloured homogeneous free flowing 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 | Evaporation rate | No data available | Flammability (Solid, gas) | No data available | Vapour pressure | No data available | Relative density | No data available | Water solubility | No data available | Autoignition Temperature | No data available | Decomposition Temperature | No data available | Viscosity | No data available | Explosive properties | No data available | Oxidizing properties | No data available | Thermal decomposition | No data available |
| Appearance | White to cream coloured homogeneous free flowing 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Evaporation rate | No data available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Flammability (Solid, gas) | No data available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vapour pressure | No data available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relative density | No data available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Water solubility | No data available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Autoignition Temperature | No data available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Decomposition Temperature | No data available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Viscosity | No data available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Explosive properties | No data available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Oxidizing properties | No data available | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Thermal decomposition | 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 In the event of fire. Refer section 5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



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| Section 11 | Toxicological Information |
| | <p>11.1 Information on toxicological effects</p> <p>Acute toxicity No data available</p> <p>Skin corrosion/irritation No data available</p> <p>Serious eye damage/eye irritation No data available</p> <p>Respiratory or skin sensitisation No data available</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>Additional information RTECS: No data available</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 No data available .</p> <p>12.6 Other adverse effects No data available</p> |



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| Section 13 | Disposal Considerations |
| | <p>13.1 Waste treatments methods</p> <p>Product</p> <p>Offer surplus and non-recyclable solutions to a licenced disposal company.</p> <p>13.2 Contaminated packaging</p> <p>Dispose of as unused product</p> |
| Section 14 | Transport Information |
| | <p>14.1 UN-No</p> <p>ADNR : ADR : IATA_C : IATA_P : IMDG : RID :</p> <p>14.2 UN proper shipping name</p> <p>ADNR : Not dangerous goods</p> <p>ADR : Not dangerous goods</p> <p>IATA_C : Not dangerous goods</p> <p>IATA_P : Not dangerous goods</p> <p>IMDG : Not dangerous goods</p> <p>RID : Not dangerous goods</p> <p>14.3 Transport hazard class(es)</p> <p>ADNR : ADR : IATA_C : IATA_P : IMDG : RID :</p> <p>14.4 Packaging group</p> <p>ADNR : ADR : IATA_C : IATA_P : IMDG : RID :</p> <p>14.5 Environmental hazards</p> <p>ADNR:NO ADR :NO IMDG : NO Marine Pollutant - NO IATA_C : NO IATA_P : No RID : NO</p> <p>14.6 Special precautions for use</p> <p>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</p> <p>No data available</p> <p>15.2 Chemical Safety Assessment</p> <p>No data available</p> |



| Section 16 | Other Information | | | | | | | | | | | | | | | | |
|-------------------|---|------|--------------------|------|------------------------|------|-------------------------------|------|----------------------------------|-------------------|----------------------------------|---------------|---|---------------|--|-----------|--|
| | <table><tr><td>H301</td><td>Toxic if swallowed</td></tr><tr><td>H315</td><td>Causes skin irritation</td></tr><tr><td>H319</td><td>Causes serious eye irritation</td></tr><tr><td>H335</td><td>May cause respiratory irritation</td></tr><tr><td>Acute Tox.oral. 3</td><td>Acute toxicity, oral, Category 3</td></tr><tr><td>Eye Irrit. 2A</td><td>Serious eye damage or eye irritation, Category 2A</td></tr><tr><td>Skin Irrit. 2</td><td>Skin corrosion or irritation, Category 2</td></tr><tr><td>STOT SE 3</td><td>Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3</td></tr></table> <p>Further Information</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> | H301 | Toxic if swallowed | H315 | Causes skin irritation | H319 | Causes serious eye irritation | H335 | May cause respiratory irritation | Acute Tox.oral. 3 | Acute toxicity, oral, Category 3 | Eye Irrit. 2A | Serious eye damage or eye irritation, Category 2A | Skin Irrit. 2 | Skin corrosion or irritation, Category 2 | STOT SE 3 | Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3 |
| H301 | Toxic if swallowed | | | | | | | | | | | | | | | | |
| H315 | Causes skin irritation | | | | | | | | | | | | | | | | |
| H319 | Causes serious eye irritation | | | | | | | | | | | | | | | | |
| H335 | May cause respiratory irritation | | | | | | | | | | | | | | | | |
| Acute Tox.oral. 3 | Acute toxicity, oral, Category 3 | | | | | | | | | | | | | | | | |
| Eye Irrit. 2A | Serious eye damage or eye irritation, Category 2A | | | | | | | | | | | | | | | | |
| Skin Irrit. 2 | Skin corrosion or irritation, Category 2 | | | | | | | | | | | | | | | | |
| STOT SE 3 | Specific target organ toxicity, single exposure, Respiratory tract irritation, Category 3 | | | | | | | | | | | | | | | | |