1 Identification of the substances/ mixture and of the company/ undertaking

1.1 Product Identifiers

Product Number	G153
Product Name	Synthetic Complete Supplement Mixture (SC) w/o LEU
REACH Registration Number	Reach registration number is not available for this mixture. The annual tonnage does not require a REACH registration or it is envisaged for a later registration deadline.

1.2 Relevant identified uses of the substance or mixture and uses advised against

1.2.1 Relevant identified uses Laboratory chemicals, Manufacture of substances

1.3 Details of the supplier of the safety data sheet

Produced by	HiMedia Laboratories Private Limited		
Address	23, Vadhani Industrial Estate, LBS Marg, Ghatkopar (W), Mumbai - 400 086 India		
Tel. No.	+91-22-2500 0970, +91-22-2500 1607	Fax No.	: +91-22-25002468
Mail Id	mb@himedialabs.com	Website	: www.himedialabs.com

1.4 Emergency Tel. No.

Emergency Tel. No.	Please contact the regional HiMedia representation in your country

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2 Hazards Identification

2.1 Classification of the substance or mixture

CLP Classification-Regulation (EC) No. 1272/2008[EU-GHS/CLP]

Skin corrosion or irritation, (Category 2), H315
Serious eye damage or eye irritation, (Category 2A), H319

2.2 Label elements

Labeling according to Regulation (EC) No.1272/2008

Pictogram
Signal word Warning

Hazard Statement(s)

H315	Causes skin irritation
H319	Causes serious eye irritation

Precautionary Statement(s)

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P264	Wash hands thoroughly after handling. Wash skin thouroughly 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.

2.3 Other Hazards

None

3 Composition/Information On Ingredients

Component	Classification	Concentration
Adenine		
CAS No. : 73-24-5 EC No. : 200-796-1 Molecular Formula : $C_5H_5N_5$ Molecular Weight : 135.13	**As Per EC Regulation 1272/2008** Acute Tox.oral. 3 H301	>= -

Component	Classification	Concentration
L-Alanine		
CAS No. : 56-41-7 EC No. : 200-273-8 Molecular Formula : $C_3H_7NO_2$ Molecular Weight : 89.09		>= -

Component	Classification	Concentration
L-Arginine monohydrochloride		
CAS No. : 1119-34-2 EC No. : 214-275-1 Molecular Formula : $C_6H_{14}N_4O_2.HCl$ Molecular Weight : 210.66		>= -

Component	Classification	Concentration
L-Asparagine monohydrate		
CAS No. : 5794-13-8 EC No. : 200-735-9 Molecular Formula : $C_4H_8N_2O_3.H_2O$ Molecular Weight : 150.13		>= -

Component	Classification	Concentration
L-Aspartic acid		
CAS No. : 56-84-8 EC No. : 200-291-6 Molecular Formula : $C_4H_7NO_4$ Molecular Weight : 133.10		>= -

Component	Classification	Concentration
L-Cysteine hydrochloride monohydrate		
CAS No. : 7048-04-6 EC No. : 200-157-7 Molecular Formula : $C_3H_7NO_2S.HCl.H_2O$ Molecular Weight : 175.63		>= -

Component	Classification	Concentration
Glutamine		
		>= -

Component	Classification	Concentration
L-Glutamic acid, Hi-Cert™		
CAS No. : 56-86-0 EC No. : 200-293-7 Molecular Formula : $C_5H_9NO_4$ Molecular Weight : 147.13		>= -

Component	Classification	Concentration
Glycine, Hi-AR™/ACS		
CAS No. : 56-40-6 EC No. : 200-272-2 Molecular Formula : $C_2H_5NO_2$ Molecular Weight : 75.07		>= -

Component	Classification	Concentration
L-Histidine monohydrochloride monohydrate		
CAS No. : 5934-29-2 EC No. : 211-438-9 Molecular Formula : $C_6H_9N_3O_2.HCl.H_2O$ 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 : $C_6H_{13}NO_2$ Molecular Weight : 131.17		>= -

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		>= -

Component	Classification	Concentration
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		>= -

Component	Classification	Concentration
L-Phenylalanine		
CAS No. : 63-91-2 EC No. : 200-568-1 Molecular Formula : $C_9H_{11}NO_2$ Molecular Weight : 165.19		>= -

Component	Classification	Concentration
L-Proline		
CAS No. : 147-85-3 EC No. : 205-702-2 Molecular Formula : $C_5H_9NO_2$ Molecular Weight : 115.13		>= -

Component	Classification	Concentration
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		>= -

Component	Classification	Concentration
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 Molecular Formula : $C_{11}H_{12}N_2O_2$ Molecular Weight : 204.23		>= -

Component	Classification	Concentration
L-Tyrosine		
CAS No. : 60-18-4 EC No. : 200-460-4 Molecular Formula : $C_9H_{11}NO_3$ Molecular Weight : 181.19	**As Per EC Regulation 1272/2008** Skin Irrit. 2; Eye Irrit. 2A; STOT SE 3 H315; H319; H335	>= -

Component	Classification	Concentration
Uracil		
CAS No. : 66-22-8 EC No. : 200-621-9 Molecular Formula : $C_4H_4N_2O_2$ Molecular Weight : 112.09		>= -

Component	Classification	Concentration
L-Valine		
CAS No. : 72-18-4 EC No. : 200-773-6 Molecular Formula : $C_5H_{11}NO_2$ Molecular Weight : 117.15		>= -

4 First Aid Measures

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.

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.

4.3 Indication of immediate medical attention and special treatment needed
Treat symptomatically.

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5 Fire Fighting Measures

5.1 Extinguishing media
Suitable extinguishing media
Use water spray, alcohol-resistant foam, dry chemical or carbon dioxide.
Unsuitable extinguishing media
No data available.

5.2 Special hazards arising from the substance or mixture
Nature of decomposition products unknown

5.3 Precautions for fire-fighters
Wear self contained breathing apparatus for fire fighting if necessary

5.4 Further information
No data available

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6 Accidental Release Measures

6.1 Personal precautions, protective equipment and emergency procedures
Use personnel protective equipment. Avoid breathing vapours, mist or gas. Ensure adequate ventilation. For personal protection see section 8.

6.2 Environmental precautions
No special environmental precautions required.

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, closed containers for disposal.

6.4 Reference to other sections
For disposal see Section 13.

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7 Handling and Storage

7.1 Precautions for safe handling
Avoid contact with skin and eyes. Avoid inhalation of vapour or mist. For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Store in cool place. Keep container tightly closed in a dry and well-ventilated place. Storage class (TRGS 510): Non Combustible Liquids

Recommended Storage Temperature : Store between 10-30°C

7.3 Specific end uses

Apart from the uses mentioned in section 1.2 no other specific uses are stipulated.

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8 Exposure Controls/Personal Protection

8.1 Control parameters

Components with workplace control parameters

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 saftey 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).

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.

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.

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).

Environment exposure controls

Do not empty into drains. Prevent further leakage or spillage if safe to do so. No special environmental precautions required. Discharge into the environment must be avoided. Do not let product enter drains.

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9 Physical and chemical properties

9.1 Information on basic physical and chemical properties

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

9.2 Other safety information

No data available

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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

10.6 Hazardous decomposition products

In the event of fire. Refer section 5

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11 Toxicological Information

11.1 Information on toxicological effects

Acute toxicity

No data available

Skin corrosion/irritation

No data available

Serious eye damage/eye irritation

No data available

Respiratory or skin sensitisation

No data available

Germ cell mutagenicity

No data available

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.

Reproductive toxicity

No data available

Specific target organ toxicity- single exposure

No data available

Aspiration hazard

No data available

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12 Ecological Information

12.1 Toxicity

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 PBT and vPvB assessment

No data available

12.6 Other adverse effects

No data available

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13 Disposal Considerations

13.1 Waste treatments methods

Product

Offer surplus and non-recyclable solutions to a licenced disposal company.

13.2 Contaminated packaging

Dispose of as unused product.

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14 Transport Information

14.1 UN-No

ADNR : ADR : IATA_C : IATA_P : IMDG : RID :

14.2 UN proper shipping name

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

14.3 Transport hazard class(es)

ADNR : - ADR : - IATA_C : - IATA_P : - IMDG : - RID : -

14.4 Packaging group

ADNR : ADR : IATA_C : IATA_P : IMDG : RID :

14.5 Environmental hazards

ADNR : NO ADR : NO IMDG : Marine Pollutant: No IATA_C : NO IATA_P : NO RID : NO

14.6 Special precautions for use

No data available

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15 Regulatory Information

15.1 Safety health and environment regulations/legislation specific for the substance or mixture

No data available

15.2 Chemical Safety Assessment

No data available

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16 Other information

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

Further Information

The information given in this safety data sheet is believed to be correct yet does not claim to be all inclusive. This document is intended only as a guide for appropriate precautionary handling of the material by properly trained individuals, information here being commensurate with the present state of our knowledge regarding the manner and conditions of use, handling, storage or disposal. The information provided herein shall not be considered as guarantee of the properties of the product. HiMedia Laboratories, shall not be held liable for any damage resulting from improper handling or contact with the above product. Unless explicitly stated on the product or in any of the documentation accompanying the product, it is intended for research or testing purpose only and is not to be used for any other purpose.
