

# GI LiTE™ Premix G12

GLYCEMIX INDEX REDUCER

## MATERIAL SAFETY DATA SHEET

### 1. SUBSTANCE IDENTIFICATION / COMPANY INFORMATION

**Product Name:** GI LiTE™ Premix G12  
**Product Description:** Glycemix Index Reducer  
**Product Brand/Codes:** GI LiTE™  
**Supplier:** Holista Biotech Sdn Bhd  
Unit 1201, 12<sup>th</sup> Floor, Amcorp Trade Center, PJ Tower  
No.18, Persiaran Barat, 46050 Petaling Jaya  
Selangor D. E., Malaysia

### 2. COMPOSITION/INFORMATION ON INGREDIENT

Chemical Name	CAS No.	EINECS	Weight* (%)
Dhal ( <i>Vigna mungo</i> )	N/A	N/A	40 – 70%
Fenugreek, deshell ( <i>Trigonella fornum-graecum</i> )	977155-29-5 (EAFUS)	283-415-1	40 – 70%
Guar Gum ( <i>Cyamopsis tetragonolobus</i> )	9000-30-0	232-536-8	10 – 40%
Okra ( <i>Abelmoschus esculentus</i> )	91723-07-8	294-510-2	1 – 30%

### 3. HAZARDS IDENTIFICATION

**ATTENTION!** This product is an ingredient in food and beverages and this Material Safety Data Sheet is concerned only with occupational exposures.

#### HAZARD DESIGNATION

**Flammability Rating:** 1 – Slight  
**Reactivity Rating:** 0 – None  
**Contact Rating:** 1 – Slight  
**Storage Color Code:** Green (General Storage)

#### POTENTIAL HEALTH EFFECTS

**Inhalation:** Inhalation of excessive amounts of nuisance dusts may induce coughing and aggravating pre-existing respiratory disorders. Chronic or long-term repeated exposure to dust may cause lung damage.

**Skin Contact:** Contact with dust may cause slight irritation in allergic individuals..

**Eye Contact:** Contact may cause irritation due to mechanical action.

**Ingestion:** No adverse health effects expected from ingestion.

**Aggravation of Pre-existing Conditions:** Allergies, pre-existing lung conditions or asthma.

**Primary Entry Routes:** Inhalation.

## 4. FIRST AID MEASURES

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<b>Inhalation:</b>	Remove from exposure and move to fresh air immediately. If breathing is difficult, provide oxygen. Get medical advice if effects persist.
<b>Ingestion:</b>	If accidentally ingested, give several glasses of water to drink to dilute. Do not induce vomiting. If large amounts were swallowed, or if irritation develops, get medical advice.
<b>Skin Contact:</b>	Wash exposed area with water and soap. Get medical advice if irritation develops.
<b>Eye Contact:</b>	Wash thoroughly with running water for 15 minutes or until particle / dust is removed, while holding eyelids open. Get medical advice if irritation develops. Do not attempt to manually remove anything from the eyes.

## 5. FIRE FIGHTING MEASURES

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<b>Fire:</b>	Do not use direct hose stream if dust can be dispersed into air. Dust dispersed by water stream in the presence of an ignition source could cause an explosion.
<b>Explosion:</b>	If improperly handled, stored, and/or exposed to an ignition source, this material may burn. Airborne dust in sufficient concentration when confined and exposed to a sufficient ignition source can explode.
<b>Fire Extinguishing Media:</b>	Water spray, dry chemical, alcohol foam, or carbon dioxide (CO <sub>2</sub> ).
<b>Hazardous Combustion Products:</b>	Carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ).
<b>Special Information:</b>	In the event of a fire, wear full protective clothing and NIOSH-approved self-contained breathing apparatus with full facepiece operated in the pressure demand or other positive pressure mode.

## 6. ACCIDENTAL RELEASE MEASURES

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<b>Personal Precaution:</b>	<b>DUST IS EXPLOSIVE.</b> Eliminate ignition sources. Use care to avoid creating dusty conditions. Wear appropriate personal protective equipment as specified in SECTION 8. Vacuuming or wet sweeping may be used to avoid dust dispersal.
<b>Spillage:</b>	<b>CAUTION:</b> Slippery when wet. Clean up by brushing down, broom sweeping, shoveling or appropriately rated vacuum. Dispose by local, state or federal regulations.

## 7. HANDLING AND STORAGE

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<b>Safe Handling Precautions:</b>	May form flammable dust-air mixtures if handled improperly. Use handling practices that minimize dust generation and accumulation. If possible <b>AVOID WETTING SPILLED MATERIAL</b> . If spilled material must be washed down, then copious amounts of water will be necessary. Avoid walking on wet spilled material which will be very slippery.
<b>Storage Conditions:</b>	<b>POWDER IS HYGROSCOPIC.</b> Keep in a tightly closed container, stored in a cool, dry, ventilated area. Protect against physical damage.

Isolate from any course of heat or ignition. Isolate from incompatible substances. Containers of this material may be hazardous when empty since they retain product residues (dust, solids); observe all warnings and precautions listed for the product.

Eating, drinking, and smoking in work areas is prohibited. Wash hands after handling this substance. Remove contaminated clothing and protective equipment before entering eating areas.

## General Notes on Hygiene:

## 8. EXPOSURE CONTROLS/PERSONAL PROTECTION

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<b>Airborne Exposure Limits:</b>	OSHA PEL: 15 mg/m <sup>3</sup> (Total Dust); 5 mg/m <sup>3</sup> (Inhalable fraction). Cal/OSHA PEL: 10 mg/m <sup>3</sup> (Total Dust); 0.5 mg/m <sup>3</sup> (Inhalable fraction).
<b>Ventilation System:</b>	In general, dilution ventilation to keep dust levels below the exposure limits is a satisfactory health hazard control for this substance. However, if conditions of use create discomfort to the worker, a local exhaust system should be considered.
<b>Lung Protection:</b>	Wear NIOSH/MSHA approved respirators rated for fine dust if exposure limits are exceeded.
<b>Skin Protection:</b>	Wear protective gloves and clean body-covering clothing.
<b>Eye Protection:</b>	Use chemical safety goggles. Maintain eye-wash fountain and quick drench facilities in work area.

## 9. PHYSICAL AND CHEMICAL PROPERTIES

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<b>Appearance:</b>	Tan to pale olive green; Free flowing powder.
<b>Odour:</b>	Grain or vegetal odour.
<b>Solubility:</b>	Water soluble.
<b>Bulk Density:</b>	No information found.
<b>pH:</b>	No information found.
<b>%Volatiles by volume @ 21°C (70°F):</b>	No information found.
<b>Boiling Point:</b>	Not applicable.
<b>Melting Point:</b>	Not applicable.
<b>Vapor Density (Air = 1):</b>	No information found.
<b>Vapor Pressure (mm Hg):</b>	No information found.
<b>Evaporation Rate (BuAc = 1):</b>	No information found.
<b>Flash Point:</b>	No information found.
<b>Flammable Limits:</b>	LFL : 55 g/m <sup>3</sup> ; UFL: No information found.
<b>Autoignition Temperature:</b>	~400°C (dust cloud), ~230°C (layer).

## 10. STABILITY AND REACTIVITY

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<b>Stability:</b>	Stable under recommended storage conditions. Exposure to moisture may lead to caking and microbial spoilage.
<b>Hazardous decomposition products:</b>	May emit oxides of carbon when heated to decomposition.
<b>Hazardous polymerization:</b>	Will not occur.
<b>Incompatibilities:</b>	Strong oxidizing and reducing agents.
<b>Conditions to avoid:</b>	Heat, moisture, incompatibilities. Avoid dusty conditions exceeding the lower flammable limit (LFL). AVOID IGNITION SOURCES.

## 11. TOXICOLOGICAL INFORMATION

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### ■ ACUTE TOXICITY

**LD50:** No information available on this product (Inhalation, Ingestion and / or Skin exposure).

**Other Information on Acute Toxicity:** No information available on this product.

### ■ LOCAL EFFECTS

**Skin Corrosion / Irritation:** May cause mild irritation in allergic individuals (swelling and redness of skin). Non-corrosive substance.

**Serious Eye Damage / Eye Irritation:** May cause mild irritation (redness and tearing) upon accidental exposure to dust/mechanical action.

**Respiratory or Skin Sensitization:** Symptomatic irritation upon acute exposure to high dust levels (coughing, wheezing, shortness of breath and aggravation of pre-existing respiratory conditions). Repeated exposure to dust without wearing proper lung protection equipment may cause lung damage.

### ■ CHRONIC TOXICITY

**Germ Cell Mutagenicity:** No information found.

**Carcinogenicity:** No component of this product is identified as a carcinogen or potential carcinogen by OSHA, IARC, and NTP.

**Reproductive Toxicity:** No information found.

**Teratogenicity:** No information found.

**Specific Target Organ Toxicity:** No information found (single exposure).

No information found (repeated exposure).

**Aspiration Hazard:** Repeated exposure to dust without wearing proper lung protection equipment may cause lung damage.

## 12. ECOLOGICAL INFORMATION

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**Environmental Fate:** Readily biodegradable.

**Environmental Toxicity:** Contains no substance known to be hazardous to the environment. Contains no substances known to be not degradable in wastewater treatment plants.

**Bio-accumulative Potential:** No information found.

**Mobility in Soil:** No information found.

**Mobility in Water:** Dispersible/soluble in water.

**Other Adverse Effects:** No information found.

## 13. DISPOSAL CONSIDERATIONS

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**GENERAL:** Whatever cannot be saved for recovery and recycling should be managed in an appropriate and approved waste disposal facility. If possible, avoid sewage disposal. Processing, use or contamination of this product may change the waste management options. State and local disposal regulations may differ from federal disposal regulations. Dispose of unused contents in accordance with federal, state, and local requirements. Empty containers should be taken for local recycling, recovery, or waste disposal.

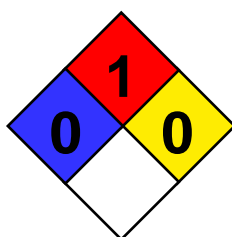
## 14. TRANSPORT INFORMATION

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<b>UN Number:</b>	Not classified as hazardous for transportation.
<b>Harmonized System (HS) Code:</b>	<b>0712.90.9090</b> Dried vegetables, whole, cut, sliced, broken or in powder, but not further prepared. – Other vegetables; mixture of vegetables: Other.
<b>Special Precautions:</b>	Follow handling instructions stated in SECTION 7. Substance is non-hazardous; Ship as food stuff.

## 15. OTHER INFORMATION:

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**NFPA Ratings:**

Health – 0  
Flammability – 1  
Reactivity – 0

<b>Label Precautions:</b>	Avoid dust cloud in presence of an ignition source. Maintain adequate ventilation. Keep container closed.
<b>Label First Aid:</b>	If inhaled, remove to fresh air. Get medical attention for any breathing difficulty. In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes.
<b>Product Use:</b>	Food grade.
<b>Revision Information:</b>	Not applicable.

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