

## UNIGOLD PRODUCTS

Use of excessive chemical fertilizers and pesticides over the last 7 decades have significantly reduced the soil fertility. Salts in chemical fertilizers makes soil hard and compact. Pesticides not only kills pathogenic microbes and insects but also kills vital beneficial micro-flora and insects in the soil. As a result, soil cycle is disturbed. If it is not rectified in time, soil which was fertile once would gradually become infertile. **It's a great threat to all types of farming which are based on chemical fertilizers and pesticides.**

### DESCRIPTION

<i>Product</i>	<i>UNIGOLD P &amp; G</i>	<i>UNIGOLD 8020</i>	<i>UNIGOLD Ultra</i>	<i>UNIGOLD 5 Star</i>	<i>UNIGOLD 20 G</i>
<i>Parameters</i>					
<i>Appearance</i>	Dark brown Powder or Granules	Dark brown to black powder	Dark black powder	Dark black fine granules coated on quartz	Dark black fine granules coated on quartz
<i>Active ingredient min</i>	80 %	80 %	85 %	5 %	15%
<i>pH</i>	Acidic	Acidic	Alkaline	Alkaline	Alkaline
<i>Water solubility</i>	Insoluble	Partly soluble	Soluble	Soluble	Soluble
<i>Activity</i>	Slow release Immediate to long activity	Rapid action to prolong activity	Rapid action	Rapid action	Rapid action
<i>Dosages</i>	4-8 kg / acre	4-8 kg /acre	500 g/acre per application	5-10 kg / acre per application	2 kg / acre per application
<i>Category</i>	Soil conditioner & Fertility enhancer	Bio-activator with soil conditioner	Bio stimulant, Bio catalyser & Bio activator	Bio stimulant, Bio catalyser & Bio activator	Bio stimulant, Bio catalyser & Bio activator
<i>Grade</i>	Humalite **	Humalite **	Humalite **	Humalite **	Humalite **
<i>Bio availability *</i>	4-5 times	4-5 times	4-5 times	4-5 times	4-5 times

<b>Application cycle</b>	One time per crop	One time per crop	2-3 times at crucial stages of crop	At beginning and before flowering	At beginning and before flowering
<b>Application</b>	Soil	Soil	Foliar & drip	Soil	Soil
<b>Packing</b>	1kg pouch and 25 kg bag	1 kg pouch	1kg pouch and 25 kg bag	5 kg pouch and 30 kg drum	1 kg pouch and 30 kg drum

Unigold products are based on naturally occurring Organic Soil Conditioner that acts as an Organic Chelating agent and a Microbial stimulator. It's unique molecular structure increases nutrient assimilation and enhances SOIL FERTILITY and PRODUCTIVITY. Soil with low Cation Exchange Capacity (CEC) cannot hold electrically charged vital nutrients and as a result they are leached out during irrigation. Unigold plays important role by enhancing utilization of micro and macro nutrients.

We have different grades of Unigold as under :

\* Bioavailability of Humalite is 4-5 times more than similar products obtained from different mines.

\*\* Humalite has high percentage of Humic acid and has low ash content as compare to Leonardite

# Unigold 8020 is specifically designed to exhibit properties of both rapid action and Slow Release-Prolonged Action product. The component responsible for slow release remains active in the soil for a longer duration and enhances Soil Fertility and Bio-cycle. Unlike other water soluble products it is insoluble and hence don't leach out from soil to remain effective for 6-12 months.

### **BENEFITS :**

- Increases soil fertility by
  - Increasing soil micro-flora population
  - Accelerating Organic Matter DECOMPOSITION
  - Increasing HUMUS / CARBON content in the soil
- Stimulates growth and proliferation of desirable soil microbes, algae and yeast.
- Assist in transferring vital micronutrients from soil to plant. Increase nutrient holding / binding capacity of the soil therefore reduces fertilizer dosages by 30-50 %.
- Increases Cation Exchange Capacity (CEC) of the soil.
- Extra strength Soil conditioner because it breaks clay and compacted soil.
- Improves soil porosity, enhances aeration and water retention capacity of the soil.
- Increases root respiration and formation.
- Increases root mass, fruit yield and bio-mass in the plant.

- Restores and ensures continuity of Bio-cycles.
- Increases brix level.
- Increases buffering properties of the soil. Helps in neutralizing both acidic and alkaline soil.
- Retain water soluble nutrients in the root zone and releases them to plant when needed.
- Reduces soil erosion.
- Act as Bio-catalyzer and Bio-stimulator. Enhances physiological processes such as Respiration, Cell division, Photosynthesis, Cell elongation and Energy transfer.
- Converts Iron into available forms and hence prevents Chlorosis
- Mobilize the phosphate anion hence increases availability to the plant.

**SOIL BIOCYCLE:** *UNIGOLD plays important role in restoring the natural soil cycle. UNIGOLD serves as a energy source and hence stimulates bacterial growth, increases their population in the soil. Soil flora in turn enhances decomposition of organic matter, increases carbon content in the soil.*

## CROPS

The application dosages of UNIGOLD varies depending upon

- a. The soil condition
- b. Type of soil
- c. Crop duration

Higher dosages are recommended for high value crops such as Medicinal Aromatic Plants, horticulture , floriculture and perennial crops.

Crops on which UNIGOLD has been used successfully includes tomato, potato, pepper, cucumbers, melon, squash , cabbage, cauliflower, ornamentals, small grain, tobacco, sweet potatoes, turf, strawberries, citrus, MAPs, jatropha and floriculture.

## RECOMMENDATIONS

- ❖ **UNIGOLD (8020,P,G)** should be applied on the soil 10 days before planting and can be worked into top 1 to 2 inches of soil.
  - Do NOT plow down.
  - It can also be applied to the soil after planting and cultivation. Allow to lay on top of the soil for the rain to carry it in.
  - Unigold should be mixed with chemical fertilizer or compost before adding to soil.
  - Soil humidity should be around 30-40 % when Unigold is added to soil.
  - Unigold 5 star and 20G may be added to soil at any stage of crop.

- ❖ **UNIGOLD ultra** is suitable for both soil and foliar application. For soil mix 500g /acre with fertilizers or compost or sand and broadcast. For foliar application use 100 g for 200 L water per application and repeat the same every 3-4 weeks.
  - It is strongly recommended that, for any type of foliar application viz. micro-nutrients, insecticides or pesticides, add 5 g Unigold Ultra per 15 L pump to get better results. However, compatibility test needs to be done before mixing.

**TOXICOLOGY** UNIGOLD is non toxic and has no detrimental effects to soil microbes.

### **PRECAUTION**

Do not inhale / consume. If inhaled shift from exposed area to fresh clean air. If eyes and skin are affected, flush with clean water for 15 minutes and seek medical attention.

**STORAGE** No specific conditions required.

