



## MAXYIELD APPLICATION PROTOCOL FOR BROCCOLI

Professional Soil Improvement & Nutrition Program

**Crop: Broccoli (*Brassica oleracea* var. *italica*)**

**Product: Maxyield Organic Soil Conditioner (Humic Acid Granule)**

### 1. Nursery Preparation

Recommended Rate

- **10 kg Maxyield mixed with 400 kg of nursery soil or potting media.**

Application Method

Mix thoroughly to ensure uniform distribution throughout the nursery soil before sowing or filling nursery trays. This supports early root development, nutrient availability, moisture retention and plant establishment.

### 2. Field Planting Application

Recommended Rate

| Area | Maxyield Rate |
|------|---------------|
|------|---------------|

|          |       |
|----------|-------|
| Per Acre | 20 kg |
|----------|-------|

|             |       |
|-------------|-------|
| Per Hectare | 50 kg |
|-------------|-------|

Application Method

*With Chemical Fertilizer (Recommended)*

Mix Maxyield with basal fertilizer at approximately 1:5 ratio for uniform distribution.

Example:

- 20 kg Maxyield per acre
- Basal fertilizer according to the farmer's normal fertilizer or soil-test program

Apply at transplanting and mix thoroughly with the soil around the root zone. Avoid placing concentrated fertilizer directly against young roots.



*With Organic Manure*

Maxyield can also be mixed with well-decomposed farmyard manure or compost and incorporated around the root zone during transplanting.

### 3. Topdressing Application

## 3. Topdressing Application

Recommended Rate

| Area | Maxyield Rate |
|------|---------------|
|------|---------------|

|          |       |
|----------|-------|
| Per Acre | 20 kg |
|----------|-------|

|             |       |
|-------------|-------|
| Per Hectare | 50 kg |
|-------------|-------|

Timing

Apply approximately 6–8 weeks after transplanting, preferably together with the planned fertilizer application.

Application Method

Apply evenly across the field. For more accurate and uniform spreading, Maxyield can be mixed with chemical fertilizer or well-decomposed manure.

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## Benefits of Maxyield in Broccoli

- Improves soil structure and aeration.
  - Promotes stronger root establishment and root development.
  - Enhances nutrient availability and nutrient use efficiency.
  - Improves soil moisture retention.
  - Supports soil biological activity.
  - Supports stronger and more uniform crop development.
  - Supports head development, crop quality and overall crop performance.
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## Optimal Soil pH for Broccoli

Broccoli performs best in slightly acidic to neutral soils.



| Soil Condition     | pH Range  |
|--------------------|-----------|
| Optimal target     | 6.0 – 7.0 |
| Generally suitable | 5.5 – 7.5 |
| Below target       | < 6.0     |
| Above target       | > 7.0     |

A practical target soil pH of approximately 6.0–7.0 supports good nutrient availability and crop development. Soil testing is recommended before planting, especially in strongly acidic soils.

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## Estimated Agronomic Risk Associated with Non-Optimal Soil pH

| Soil pH   | Expected Agronomic Risk                               |
|-----------|-------------------------------------------------------|
| 6.0 – 7.0 | Lowest pH-related risk / target range                 |
| 5.5 – 5.9 | Moderate risk; nutrient availability may decline      |
| 5.0 – 5.4 | High risk from soil acidity and nutrient imbalance    |
| Below 5.0 | Very high risk; acidity can strongly restrict growth  |
| 7.1 – 7.5 | Moderate risk; micronutrient availability may decline |
| Above 7.5 | High risk of micronutrient limitations                |

The table below is an agronomic risk guide rather than a guaranteed percentage yield-loss table. Actual crop response depends on soil type, nutrient status, variety, moisture, disease pressure and management.

## Recommended Maxyield Program According to Soil pH

| Soil pH   | Recommended Maxyield Rate                                            |
|-----------|----------------------------------------------------------------------|
| 6.0 – 7.0 | Standard Maxyield program                                            |
| 5.0 – 5.9 | Standard program + soil test; correct acidity if recommended         |
| Below 5.0 | Soil test essential; combine Maxyield with appropriate pH correction |

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## Standard Application Program

| Growth Stage                                                                                              | Application Rate                                                   |
|-----------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| Nursery Preparation                                                                                       | 10 kg per 400 kg nursery soil                                      |
| At Transplanting                                                                                          | 20 kg/acre (50 kg/ha)                                              |
| Topdressing                                                                                               | 20 kg/acre (50 kg/ha), approximately 6–8 weeks after transplanting |
| Total standard seasonal application: 40 kg/acre (100 kg/ha), split between transplanting and topdressing. |                                                                    |