



**MAXWELL**

# HumiMax

**Specially created for tank mixing**  
**Highly efficient enhanced foliar absorption formulation**

**95.5% Humified Organic Matter**  
**Including 20.5% Humic acid & 4.5% Fulvic acid**

- ✓ **Supports plant leaf and root growth**
- ✓ **Supports a healthy soil rhizosphere**
- ✓ **Natural chelate**
- ✓ **Micronized suspension for uniform distribution across leaf surface**
- ✓ **Increase uptake and efficiency of fertiliser and pesticides**
- ✓ **Pressure extraction retains all natural benefits – approved for organic use**
- ✓ **Manages excess salts by buffering sodium**
- ✓ **Low application rate**

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## Humus

Humus is the stable organic portion of the soil which holds nutrients in a plant available form. It is formed of various compounds known as humates which are rich in both organic and mineral substances.

## Humates

Humus is formed of various complex organic compounds the major components are;

**Fulvic acids:** small complex molecules and the fraction of humus, soluble in water at all pH ranges.

**Humic acids:** complex molecules larger than fulvic acids. The fraction of humus soluble in water at above pH 2.

**Humins:** the fraction of humus not soluble in water.

Each humate substance plays a vital role in healthy plant and soil life function.

Studies have consistently shown that humic acids have beneficial effects on plant growth and root development. This is due to a plant's ability to absorb and translocate the complex organic humic acid molecules. This function leads to demonstrable improvements of pesticide and nutrient uptake and efficiency.

Soil humus is demonstrated to increase the nutrient and water holding capacity of the soil, which leads to further increases in nutrient cycling and stress tolerance.

Humates actively deliver carbon into the soil ecosystem which allows plants and soil biology to maintain a healthy carbon to nitrogen ratio. This is vital for efficient life cycle function and metabolism of nutrients within the narrow region of soil that is directly influenced by root secretions and soil microorganisms known as the rhizosphere.

## Features of HumiMax

Unlike many humic acid products, HumiMax is not produced via damaging alkaline chemical extraction. HumiMax is sourced from 100% naturally occurring Leonardite via pressure extraction technology, which preserves all the natural benefits of the source material.

The micronized (2µ) suspension formulation of HumiMax results in a micro particle effect which creates a uniform distribution across the leaf

surface. This uniform distribution combines with the natural chelating effects of humates and the complimentary low pH achieved by the pressure extraction technology, to achieve maximised uptake of fertilisers and plant protection products. **It is this triple combination which makes Maxwell HumiMax the perfect partner for tank mixing with a range of foliar inputs.**

The 2µm micronised suspension formulation also allows for reduced application rates when compared to other humic acid products.

## Key Benefits of HumiMax

1. Supports plant leaf and root growth.
2. Supports a healthy soil rhizosphere.
3. Natural chelate.
4. Micronized suspension for uniform distribution across leaf surface.
5. Natural low pH for safe and rapid leaf penetration.
6. Increase uptake and efficiency of fertiliser and plant protection products.
7. Pressure extraction retains all natural benefits – approved for organic use.
8. Increases soil humus.
9. Supports a healthy soil rhizosphere.
10. Supports efficient carbon balance.
11. Chemically bonds with nutrients in the soil.
12. Manages excess salts by buffering sodium.
13. Assists degradation of toxic soil substances.
14. Low application rates.
15. Repeat applications increase all round soil health and function.

## Mixing Guidelines

Humimax is a suspension concentrate consisting of millions of micronised fragments of pure leonardite.

Humimax is a premium formulated product specially engineered to remain stable when bottled over time. However natural settling may occur, as a result;

### SHAKE WELL BEFORE USE.

**When mixing multiple products for the first time always carry out a compatibility test ahead of the scheduled application.**

## Compatibility Test Procedure

- Combine products in a clean container at the equivalent desired concentrations of product and water.
- Avoid mixing concentrated products.
- Always add water to the container first followed by each of the concentrated products.
- Leave to one side for 3 hours.
- After 3 hours observe sample for signs of a negative reaction such as sedimentation, clouing or gelling.

## Mixing Process

1. Ensure sprayer is clean before use.
2. Half fill sprayer with clean water and agitate.
3. Shake bottle before use.
4. Add HumiMax whilst agitating and wash residues off tank filters.
5. Add additional products one at a time whilst agitating and wash residues off tank filters.
6. Add remaining quantity of water.
7. Spray within 3 hours of mixing.
8. Do not leave spray solution in sprayer for an extended period of time.
9. Clean sprayer using an approved tank cleaner after application.

**Note: warm water (>18-20 °C) will always aid the mixing process of any products.**

Item	% w/w	g/l
Total Humates	25.0%	285 g/l
<b>of which</b>		
Humic Acid	20.5%	234 g/l
Fulvic Acid	4.5%	51 g/l
Application rate		Application rate
6 -10 litres per hectare in 300-600 litres of water.		As adjuvant 50 ml per 100 L of tank volume.
Frequency		Frequency
4-6 weeks		As required

## Contains

1,2-benzisothiazol-3(2H)-one,1,2-benzisothiazolin-3-one.

May produce an allergic reaction.



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