



## **ESHP – HUMIC PLUS PLANT FOOD AND SOIL CONDITIONER**

**ESHP** is formulated with high grade humic acids that promote plant health and growth. The importance of humic acids lies in their ability to promote hormonal activity in plants. Plant hormones are chemical communicators, or agents, which help regulate a plant's development and its response to its surrounding environment.

Plant bio-stimulants and humic acids are materials that promote plant growth. The importance of bio-stimulants lies in their ability to promote hormonal activity in plants. Plant hormones are chemical communicators, or agents, which help regulate a plant's development and its response to its surrounding environment. Bio-stimulants also promote antioxidant production in plants which, in turn, reduces free radicals. Free radical molecules result from stress such as drought, heat, ultraviolet light and herbicide use. Free radicals are damaging because they are strong oxidizing agents which damage lipids, proteins and DNA within plant cells. Antioxidants are metabolites and enzymes which seek out free radical molecules and protect plants from damage. They include lipid soluble substances like vitamin "E" and beta-carotene and water soluble materials such as vitamin C and various enzymes.

**ESHP** contains humic acid, fulvic acid, macro micro nutrients and proprietary constituents essential for plant growth. In high pH soils, where phosphate availability is a problem, **ESHP** will greatly increase the availability of phosphorous, iron, zinc and manganese. In addition, **ESHP** can break down nitrogen as ammonium and retain it in the root zone preventing nitrification and leaching out of the root zone. **ESHP** can be foliar applied with the aid of a conventional sprayer and soil applied with the aid a liquid kit, irrigation or fertigation apparatus.

### **BENEFITS OF ESHP WHEN SOIL APPLIED:**

- Increases soil fertility and soil microbial and mycorrhizal activity
- Promotes nutrient uptake
- Accelerates seed germination
- Increases crop yields
- Aids in reducing frost damage
- Reduces fertilizer requirements
- Acts as a chelating agent and a disease suppressant
- Water soluble, easy to apply, economical and faster acting
- Stimulates plant enzymes and hormones
- Accelerates seed germination
- Aids in root formation
- Promotes plant nutrient uptake
- Safe for animals, plants and humans

FOLIAR APPLICATION STAGES			
Plant Type	1 <sup>st</sup> Application	2 <sup>nd</sup> Application	3 <sup>rd</sup> Application
Beans, Peas	4 leaf	First Bloom	First Pod
Small Grains	2 - 3 Leaf	Boot	
Pasture & Hay	Early Spring	After Each Cutting/Grazing	Late Fall
Grass & Turf	Early Spring	Mid Summer	Late Fall (Optional)
Carrots, Onions, Turnips	21 Days After Emerg.	Root Enlargement	Plus 21 Days
Broccoli, Cauliflower	4 - 6 leaf	Plus 14 Days	Heading
Cabbage	4 Leaf	Plus 10 Days	Heading
Corn	3 Leaf	30 inch Growth	Tasseling
Peppers, Melons, Squash	6 to 8 Inch Growth	Pre Bloom	Fruit Set
Greens	4 leaf	As Required	As Required
Potatoes	Tuber Set	Plus 14 Days	Early Bloom
Tomatoes	6 to 8 Inch Growth	First Bloom	Fruit Set
Apples & Pears	Green Tip	Pre Bloom	Early Formation
Citrus	Early Bloom	Petal Fall	6 Weeks Before Harvest
Grapes	At 25 to 30 cm	Full Bloom	Berry Set
Stone Fruit	Bud	Full Bloom	Early Fruit Formation
Strawberries	Spring Growth	1st. Pre Bloom	1st. Fruit Set

**SOIL APPLICATIONS: 1 to 2 Litres (quarts) / Acre:**

1. Dilute 1 to 2 Litres (quarts) / 20 to 40 Litres (5 to 10 gallons) water
2. Apply directly to the soil (band or side dress) with the aid of a conventional ground sprayer or back pack sprayer

**FOLIAR APPLICATIONS: 1 to 2 Litres (quarts)/ Acre:**

1. Dilute 1 to 2 Litres (quarts) / 20 to 40 Litres (5 to 10 gallons) water
2. Apply in a fine mist with the aid of a conventional ground sprayer or back pack sprayer

**FERTIGATION & DRIP IRRIGATION:**

1. Dilute 2 oz. / Litre (1 quart) water

**LAWN & TURF GRASS - 180 mL to 300 mL / 1000 sq.ft. :**

1. Dilute 6 to 10 oz / 20 Litres (5 gallons) water

\*\*Application rates may vary depending on soil type and results required  
Over application can be a benefit

**SAFETY:**

**ESHP** is produced in accordance with NOSB (National Organic Standards Board) guidelines. The materials used in the production process are derived from naturally occurring and sustainable sources and are consistent with organic principals and the National List of Allowed Substances. **ESHP** does NOT contain synthetic chemicals, animal components, and animal by products, manure or manure by-products. **ESHP** is environmentally safe and is not harmful to animals, plants and humans.

**COMPLIANCE:**

Fully complies with EPA Toxic Substance Control Act (TSCA) and the rules, orders and regulations promulgated there under including:

- a) Sections 4, 5, 6 & 7; Title 40 Chapter 1, 707.20 thru 707.75;
- b) 40 CFR Sections 704.3. 710.2(e) and 720.3(c); and
- c) Sections 5 and 13, reference 42FR64583
- d) Does not contain marine pollutants as defined in 49 CFR 171.8.

**STORAGE & HANDLING:**

Store in a cool location away from direct sunlight - No special handling required

**PACKAGING:**

2 Litre Jug  
20 Litre (5 gallon) HDPE Pail  
205 Litre (45 gallon) Barrel  
1000 Litre Tote