



SOIL  
**SYNERGY**

# Company Catalogue



SOIL **2025**  
**SYNERGY**



**Your partners for sustainable soil solutions**



# WHY HUMICS

The three molecular parts that make up humic substances provide several notable benefits respectively, in crop production, through properties that improve and enrich the soil characteristics.

Humic substances are composed of humic acids, fulvic acids, and humins.

Its benefits as soil amendments are the following:

Biology:

- Increase in microbial activity due to the contribution of soluble organic carbon.
- Low soil organic matter.
- Crop residue breakdown.

Soil structure:

- Erosion, Compaction, Water Retention.

Chemistry and Nutrition:

- Increasing CEC, Amphoteric properties.
- Improves Nutrient Efficiency, Germination & Emergence.

# WHY SOIL SYNERGY PRODUCTS

Our products are:

- Made with the highest technology.
- Derive from Humnalite and other high-quality raw materials.
- Have organic certifications.
- sustainable and environmentally friendly.
- supported by a team of experts that fully understand the agricultural landscape from manufacturing to harvesting.





## ABOUT US

SOIL SYNERGY was established with the vision of providing farmers around the world affordable innovative agricultural products to help them maintain competitive production under complex environmental and economic conditions.

We're a leading manufacturer and retailer of premium humic products for North America and Global growers.

As a company, we proudly stand by our values: Transparency, Innovation, Sustainability and Quality.



# THE HUMALITE ADVANTAGE

“Humalite” is the term used for product sources from Alberta, Canada, which is the only place where this material can be found globally.

- “Humic” + “Alberta” = “Humalite” – Weathered product of subbituminous coals
- “Leonardite” is a blanket *term typically used* to refer to the sources of humic acids
- derived from an oxidized form of lignite coal and can be obtained from many deposits throughout the world.

## PRIMARY DIFFERENCES

	Leonardite	Humalite
<b>Originates</b>	From the layer above certain lignite coal layers around the world	From the layer above sub-bituminous coal layer in Alberta ONLY (due to freeze cycle)
<b>Formation</b>	Formed in a salt water environment	Formed from a fresh water deposit
<b>Ash content</b>	Generally higher than Humalites	Low
<b>Heavy Metals</b>	Generally higher than Humalites	Low
<b>Humic Acids %</b>	Due to source variability, humic acid levels vary (10-78%)	Highest, consistent source of Humic Acids (80+%)
<b>Fulvic Acid %</b>	Variable, depending on source	Consistent
<b>Oxidizing</b>	Slow	Quick



# EnergyHume Coarse

EnergyHume Coarse is a raw organic humic granule with 80% humic acid concentration under the colorimetric method. The large particle size allows easy handling in a wide range of conditions and soil types independent of the application. It also grants the slow release of nutrients. Most cost-effective product for high-rate applications.

### Content Analysis:

Humic Substances ..... 80% Colorimetric  
Organic Carbon ..... 40%  
pH..... 3-5  
C:N ratio ..... 39:1  
Moisture ..... 28-32%  
Bulk Density ..... 740kg/m<sup>3</sup> or 46lb/ft<sup>3</sup>

### Applications:

#### AGRICULTURE

- Broadcast: 45-336 kg/ha (100-250 lb/acre)
- Strip Till: 70-225 kg/ha (60-200 lb/acre)
- In-Furrow: 45-70 kg/ha (40-60 lb/acre)

#### TURF GRASS

- Greens, tees and fairways: 3-5 kg (6-10 lb)/1000 ft<sup>2</sup> yearly

#### HYDROSEEDING

- Broadcasted: 225-560 kg/ha (200-500 lb/acre).

#### HORTICULTURE

- Mix 2-5% with soil potting mix or substrate

### Blending Instructions:

- DO NOT Blend with Urea or any Nitrogen based products.
- Compatible with most potassium and phosphate products.
- Always conduct small jar test before blending.
- Apply directly to the soil or mix with substrate.
- Read label entirely.
- Not soluble in water.

### Product Shelf Life & Storage:

- 3 to 5 years if stored in dry conditions.
- Avoid high humidity and direct contact with water.
- Bulk bags can be stored outdoors in dry conditions.
- Small bags must be stored indoors.

### Particle Size:

Typical	Mesh	Millimeters
25%	>5	>4
60%	5-7	4-2.83
15%	7-10	2.83-2



### Packaging:

Totes: 2400lb/1088kg\* & 2000lb/907kg

Bags: 55lb/25kg

\*USA & Canada only

### Certifications:





# EnergyHume Turf

EnergyHume Turf is a raw organic humic small granule with 80% humic acid concentration under the colorimetric method. The fine-grade particle size increases the surface area allowing the particles to degrade quickly creating greater nutrient availability to the plant. Ideal for broadcast as it spreads evenly. It can be apply directly to the soil or truf and mix it with a substrate.

### Content Analysis:

Humic Substances ..... 80% Colorimetric  
Organic Carbon ..... 40%  
pH..... 3-5  
C:N ratio ..... 39:1  
Moisture ..... 28-32%  
Bulk Density ..... 740kg/m<sup>3</sup> or 46lb/ft<sup>3</sup>

### Particle Size:

Typical	Mesh	Millimeters
2%	>16	3.35-1.99
90%	16-40	1.99-0.42
8%	<40	<0.42

### Applications:

#### AGRICULTURE

- Broadcast: 45-336 kg/ha (100-250 lb/acre)
- Strip Till: 70-225 kg/ha (60-200 lb/acre)
- In-Furrow: 45-70 kg/ha (40-60 lb/acre)

#### TURF GRASS

- Greens, tees and fairways: 3-5 kg (6-10 lb)/1000 ft<sup>2</sup> yearly.

#### HYDROSEEDING

- Broadcasted: 225-560 kg/ha (200-500 lb/acre).

#### HORTICULTURE

- Mix 2-5% with soil potting mix or substrate

### Blending Instructions:

- DO NOT Blend with Urea or any Nitrogen based products.
- Compatible with most potassium and phosphate products.
- Always conduct small jar test before blending.
- Apply directly to the soil or mix with substrate.
- Read label entirely.
- Not soluble in water.

### Product Shelf Life & Storage:

- 3 to 5 years if stored in dry conditions.
- Avoid high humidity and direct contact with water.
- Bulk bags can be stored outdoors in dry conditions.
- Small bags must be stored indoors.



### Packaging:

Totes: 2000lb/907kg

Bags: 55lb/25kg

\*USA & Canada only

### Certifications:





# EnergyHume Powder

EnergyHume Powder is a raw organic humic powder containing 80% humic acid under the colorimetric method. Mainly used for agricultural manufacturing processes. The fine particle size allows excellent liquid extractions. It can also be blended with compost or bulk amendments.

### Content Analysis:

Humic Substances ..... 80% Colorimetric  
Organic Carbon ..... 40%  
pH..... 3-5  
C:N ratio ..... 39:1  
Moisture ..... 28-32%  
Bulk Density ..... 774kg/m<sup>3</sup> or 48lb/ft<sup>3</sup>

### Particle Size:

Typical	Mesh	Millimeters
60%	30-40	0.7-0.18
24%	80-200	0.18-0.03
16%	<200	<0.03

### Applications:

#### AGRICULTURE

- Broadcast: 45-336 kg/ha (100-250 lb/acre)
- In-Furrow: 45-70 kg/ha (40-60 lb/acre)

#### HORTICULTURE

- Mix 2-5% with soil potting mix or substrate
- 30kg/sqm

#### MANUFACTURING

- Liquid extraction: 210kg/MT.

#### DRILLING & AQUACULTURE

- Please inquire with your sales representative.



### Blending Instructions:

- DO NOT Blend with Urea or any Nitrogen based products.
- Compatible with most potassium and phosphate products.
- Always conduct small jar test before blending.
- Apply directly to the soil or mix with substrate.
- Read label entirely.
- Not soluble in water.

### Product Shelf Life & Storage:

- 3 to 5 years if stored in dry conditions.
- Avoid high humidity and direct contact with water.
- Bulk bags can be stored outdoors in dry conditions.
- Small bags must be stored indoors.

### Packaging:

Totes: 2000lb/907kg

Bags: 55lb/25kg

### Certifications:





# EnergyHume L-24

EnergyHume L-24 is a highly concentrated liquid humic extraction ideal for starter fertilizer applications, top dressings, and irrigation systems. It can also be applied as a stand-alone soil conditioner as well as a dry fertilizer impregnation.

### Content Analysis:

Humic Substances ..... 24% Colorimetric  
Fulvic Substances ..... 3.3 ISO 19822  
Organic Carbon ..... 7.7%  
pH..... 10-12  
C:N ratio ..... 28:1  
Density ..... 1.1 kg/L

### Applications:

#### AGRICULTURE

- Irrigation Water: 10L/ha = 3.8L/acre = 1Gal/acre
- Foliar Spray: 2.5-5L/ha = 3-5L/acre = 0.25-0.5Gal/acre
- Pre-Plant In-Furrow: 2.5-5L/ha = 3-5L/acre = 0.25-0.5Gal/acre
- Side Dress & Strip Till: 5-20L/ha = 2-8L/acre = 0.5-2Gal/acre

### Blending Instructions:

- Do not mix with Acidic fertilizers, or any other liquid nitrogen or phosphate concentrated fertilizers.
- While impregnating Urea it can blend up to 1 gal (3.79L)/tonne.
- The rate when mixing with UAN is 1.32gal(0.5L)EHL24/10gal(37.9L) UAN (28-0-0 or 32-0-0).
- Shake or agitate container prior to use.
- Dilute 1 to 1 to make a comparable concentration to Liquid Carbon.
- Conduct small jar test, prior to blending.

### Product Shelf Life & Storage:

- 1 year if stored in cool conditions.
- Do not allow liquid product to freeze or be exposed to excessive heat.
- Store between 10 and 45 C (50 to 105 F).
- Must be stored indoors.



### Packaging:

Totes: 1,000L - 265 Gal

Pails: 18L - 5 Gal

### Certifications:





# EnergyHume L-Fusion

EnergyHume L-Fusion is a low-concentrated liquid humic extraction designed for blending with with a wide range of liquid fertilizers, fungicides and herbicides. Its special formulation will be potentialized and increase the efficiency any application.

### Content Analysis:

Humic Substances ..... 6% Colorimetric  
Fulvic Substances ..... 3.5 ISO 19822  
Organic Carbon ..... 1.7%  
pH..... 5-6  
C:N ratio ..... 15:1  
Density ..... 1.0 kg/L



### Applications:

#### AGRICULTURE

- Irrigation Water: 2.5-10L/ha = 1.9-3.8L/acre = 0.25-1Gal/acre
- Foliar Spray: 1.5-2.5L/ha = 0.5-1L/acre = 0.25-0.75Gal/acre
- Seeding In-Furrow: 580ml-1.2L/ha = 0.5L/acre = 0.25-0.1Gal/acre

### Blending Instructions:

- Compatible with most liquid fertilizers and other agricultural inputs.
- Always conduct a small jar test when blending with acidic formulations of a pH below 5.

### Product Shelf Life & Storage:

- 1 year if stored in cool conditions.
- Do not allow liquid product to freeze or be exposed to excessive heat.
- Store between 10 and 45 C (50 to 105 F).
- Must be stored indoors.

### Packaging:

Totes: 1,000L - 265 Gal

Pails: 18L - 5 Gal

### Certifications:





# EnergyFulvic

EnergyFulvic is a high-concentrated liquid Fulvic extraction designed to enhance solar and foliar nutrient applications. 100% compatible with most liquid crop input, increasing uptake and penetration through the root and leaf.

## Content Analysis:

Fulvic Substances ..... 3.5 ISO 19822  
CEC..... 175 - 400 Meq/100gr  
Organic Carbon ..... 0.6%  
pH..... 4  
C:N ratio ..... 5:1  
Density ..... 1.0 kg/L

## Applications:

### AGRICULTURE

All Crops Foliar Spray: 1.5-2.5L/ha = 0.5-1L/acre = 0.25-0.75Gal/acre

## Blending Instructions:

- Compatible with most liquid fertilizers and other agricultural inputs.
- Always conduct a small jar test when blending with acidic formulations of a pH below 5.
- Shake or agitate before use.
- Read label in its entirety.

## Product Shelf Life & Storage:

- 1 year if stored in cool conditions.
- Do not allow liquid product to freeze or be exposed to excessive heat.
- Store between 10 and 45 C (50 to 105 F).
- Must be stored indoors.



## Packaging:

Totes: 1,000L - 265 Gal

Pails: 18L - 5 Gal

## Certifications:





# EnergyHume SP95

EnergyHume SP95 is an organic dry 100% soluble humic acid powder, containing 95% humic acid (colorimetric method). The product is designed to efficiently produce small or large batches of humic acid liquid. The resulting organic solution is compatible with many liquid fertilizers and micro-nutrients, acting as a chelating agent aiding plants in the uptake and usability of nutrients essential for a crops healthy and productive life cycle. In addition to being made into a liquid concentrate, our powder was also designed to be used as a fertilizer coating.

## Content Analysis:

Humic Substances ..... 95% Colorimetric  
pH..... 9-10  
Moisture ..... 10%  
Bulk Density ..... 865 kg/m<sup>3</sup> or 54lbs/ft<sup>3</sup>

## Applications:

### STEP 1:

- Mix 1 lb. of EnergyHume SP95 per gallon of water (or 130 gr/L) to obtain a liquid humic solution with a 12% Humic concentration.

## AGRICULTURE

- Irrigation: 10L/ha = 3.8L/ac = 1Gal/ac
- Strip Till: 5-20L/ha = 2-8LL/ac = 0.5-2 gal/ac
- Preplant In-Furrow: 2.5-5L/ha = 1-2L/ac = 0.25-0.50Gal/ac
- Foliar: 2.5-5L/ha = 1-2L/ac = 0.25-0.50Gal/ac

## Blending Instructions:

- Mix 1 lb. of EnergyHume SP95 per gallon of water (or 130 gr/L) to make a liquid humic solution with a 12% Humic concentration.
- DO NOT Blend with Urea or any Nitrogen based products.
- Compatible with most potassium and phosphate products.
- Always conduct small jar test before blending.
- Apply directly to the soil or mix with substrate.
- Read label entirely.
- Not soluble in water.

## Product Shelf Life & Storage:

- 3 to 5 years if stored in dry conditions.
- Avoid high humidity and direct contact with water.
- All presentations must be stored indoors at all times



## Packaging:

Totes: 2000lb/907kg

Bags: 55lb/25kg & 33lb/15kg

## Certifications:





# EnergyHume SSG Coarse

EnergyHume SSG Coarse is a semi-soluble granular humic product, compatible with most fertilizers, that provides the quick short benefits of a liquid humic and the long-lasting effect of a raw granular. Its convenience and efficiency adapts to all farm operations and soil types.

### Content Analysis:

Humic Substances ..... +64% Colorimetric  
Organic Carbon ..... 33%  
pH..... 10  
C:N ratio ..... 42:1  
Moisture ..... 10-12%  
Bulk Density ..... 640kg/m<sup>3</sup> or 40lb/ft<sup>3</sup>

### Particle Size:

Typical	Mesh	Millimeters
15%	>5	>4
83%	5-7	4-2.83
2%	7-10	2.83-2

### Applications:

#### AGRICULTURE – All Crops

- Broadcast: 22-84kg/ha (50-90 lb/acre)
- In-Furrow: 6-22 kg/ha (10-20 lb/acre)

#### TURF GRASS

- Broadcast: Greens, tees and fairways: 2 lb/1000 ft<sup>2</sup>

#### FERTILIZER BLENDING

- Pre-Mix: 5% - 20%.

#### HORTICULTURE

- Mix 2-5% with soil potting mix or substrate



### Blending Instructions:

- Compatible with most dry granular fertilizers.
- When blending with a Urea formulation do not exceed 10% of EnergyHume SSG Coarse to Urea.
- Always conduct small jar test before blending.
- Apply directly to the soil or mix with substrate.
- Read label entirely.
- Not soluble in water.

### Product Shelf Life & Storage:

- 3 to 5 years if stored in dry conditions.
- Avoid high humidity and direct contact with water.
- Bulk bags can be stored outdoors in dry conditions.
- Small bags must be stored indoors.

### Packaging:

Totes: 2000lb/907kg

Bags: 55lb/25kg & 33lb/15kg

### Certifications:



## PRODUCT PACKAGING AVAILABLE



### ENERGYHUME LIQUIDS

#### IBC TOTES:

- 1,000L/265 GAL
- 250L/66 GAL

#### PAILS:

- 18.5L/5 GAL



## PRODUCT CERTIFICATION





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# ROOTING FOR YOUR SUCCESS



## CONTACT US

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