

SPECIFICATION SHEET

QUANTUM-HSC[®]

Beneficial Soil and Plant Microbial Inoculant

DESCRIPTION

Quantum-HSC is a plant and soil inoculant that restores and enhances the foundational levels of soil biology (also known as the soil food web). This product incorporates heterotrophic bacteria into a diverse microbial formulation that provides unprecedented plant enhancement at foliar, root and rhizosphere. The addition of humate material to the formulation provides a readily usable carbon source.

PERFORMANCE CHARACTERISTICS

When used as a foliar or soil application, Quantum-VSC directly impacts plant vigor and performance by:

- Improving nutrient uptake
- Improving plant photosynthesis
- Improving root and shoot growth
- Fortifying plant natural defense systems
- Promoting water production and retention

PRODUCT CHARACTERISTICS

Highly concentrated – Provides 120 million colony forming units per milliliter.

Safe and easy to use - Non-toxic and contains non-pathogenic bacteria. It may be applied as a root drench or as a foliar (diluted 10:1 with water) and is compatible with most types of irrigation systems to include: speed sprayer, boom sprayer, pivot irrigation, aerial spray, micro-jet, etc.

No re-entry restrictions.

Easy storage – Does not require refrigeration.

Long life – Shelf stable for 3 years (unopened) and 1 year (opened).

Properties

Guaranteed Bacterial Analysis:	<i>Bacillus amyloliquefaciens</i>	48,000,000 cfu/mL
	<i>Bacillus subtilis</i>	24,000,000 cfu/mL
	<i>Bacillus licheniformis</i>	24,000,000 cfu/mL
	<i>Bacillus megaterium</i>	12,000,000 cfu/mL
	<i>Bacillus polymyxa</i>	12,000,000 cfu/mL
Fertilizer Analysis:	No NPK; fertilizer analysis of 0-0-0	
pH:	6.5-8.0	
Specific Gravity:	1.04 approximately	
Particle Size:	100% through 100 micron/140 mesh	
Appearance:	Brown/Black liquid	
Odor:	Pungent and distinctive earthy odor	
Packaging:	Plastic 1 gallon bottles, 5 gallon totes, 30 gallon & 55 gallon drums and 275 gallon totes (mini-bulks)	
Storage/handling:	Shake/agitate before use. Re-cap as soon as possible. Store between 32°F/0°C and 110°F/43°C.	

DIRECTIONS FOR USE

Row Crops – 64 oz per acre at planting; 64 oz per acre at 14 to 21 days post planting; 64 oz per acre prior to full canopy.

Grains (Irrigated) – 64 oz per acre at planting; 64 oz per acre at seed head development.

Grains (Non-irrigated) – 1 gallon per acre at planting.

Turf (Golf) – Initial application of 8 oz per 1,000 ft² on tees and greens; 4 oz per 1,000 ft² every 14 days.

Turf (Sod & Sport) – Initial application (including at planting) 1 gallon per acre; 64 oz every 30 to 45 days.

Vegetables (Greenhouse) – Water in seeds with 4 oz per gallon.

Vegetables (Outplanting) – Root dip or drench with 4 oz per gallon; 64 oz per acre every 14 to 21 days.

DO NOT MIX WITH FUNGICIDES OR PESTICIDES. When tank mixing, add the Quantum-VSC last and apply within 0 to 12 hours.

For crop specific application rates and timing, visit www.GrowQuantum.com/product-application-rates.aspx.

