



Organically-Approved Input Information Sheet

EcoTea™ Soil HDI (In-Furrow, Soil Drench & Residue Management)

Analysis: EcoTea™ is a CFIA-approved bio-stimulant/amendment & is approved as an organic input by Pro-Cert

Product Notes:



- EcoTea™ Soil HDI is a 3-part mix & go system:
 1. **Inoculum** – premium worm castings, plant-based compost, fungal compost is “brewed” into a concentrated liquid called “HDI” (High Density Inoculum)
 2. **Microbial Foods** (in-furrow use LiquidMF) – humic, fulvic, and long-chain amino acids, kelp extract, simple and complex carbohydrates, and enzymes designed to feed the array of beneficial bacteria, fungi, and protozoa.
 3. **Catalyst** – added to tank just prior to application, to activate the biodiverse populations of plant beneficial microbes in the EcoTea™. (catalyst is customized to different end uses (e.g. foliar vs soil).
- EcoTea™ Soil “HDI” is “brewed” in Overton’s ARRAKIS bioreactor and shipped to the producer in 3 parts: 1) HDI (liquid inoculum) 2) microbial foods, and 3) catalyst. These three parts are shipped in 1) a 250 gal tote of HDI, 2) a 20kg bag of microbial foods, and 3) a 20L pail of catalyst. The producer tank mixes the HDI, microbial foods, catalyst & dechlorinated water (1:3) (EcoTea™:dechlorinated water) prior to application to “activate” the microorganisms in the EcoTea™.
- Add catalyst to tank mix when diluting and ready to apply.
- EcoTea™ Soil HDI is diluted with 3 parts water prior to application (e.g. 250 gal of concentrate + 750 gal dechlorinated water + 20 kg microbial food + 20 L catalyst)
- EcoTea™ Soil HDI has a shelf life of 60 days (given it is kept undiluted and before the addition of microbial foods and catalyst) and provided it is stored out of direct sunlight.

Uses:

- EcoTea™ HDI is an abundant source of biodiversity for your soil (thousands of microbes)! These beneficial plant growth promoting and ecologically functional microbes, including bacteria, fungi, and protozoa give your root system a competitive advantage.

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- EcoTea™ restores biodiversity to soils, increases nutrient availability, makes for better nutrient use efficiency, stimulates plant growth (especially at the root level), improves soil nutrient retention, increases pest resistance and aids in disease suppression, and increases drought tolerance.

Application Rates and Timing:

- Typically 2.5 gal/acre (concentrate); a 250 gal tote will cover 100 acres
- High Value Crops apply at 4 gal/acre (concentrate); a 250 gal tote = 62.5 acres
- EcoTea™ Soil HDI is applied in-furrow or as a soil drench at seeding
- EcoTea™ Liquid Seed Treatment can be applied after forage cuttings to improve re-growth of both shoots and roots
- EcoTea™ Soil HDI -Residue Mngt- can be applied postharvest to aid in the fungal decomposition of residues, reducing pest/disease carry-over & improving nutrient retention
 - Apply at 2.5 Gal/acre onto residue and incorporate so that organisms are not exposed to sun and can populate the residue and topsoil.
 - A light harrow is best, Reg. till works too

IMPORTANT:

- Apply with coarse nozzles, max. screen size should be 300 microns (50 mesh)
- 50 psi or lower
- Request Liquid Microbial Foods:
 - Liquid Kit Seeding (Discs) 30 or larger
 - Disc Seeder: quarter inch line is best (ex: Alpine Kit - b/w 20-60 orifice)
 - Drip Tape, Compatible
 - GreenHouse Emitters 300 microns or larger
- For Residue Sprays: (Powdered Micro Foods):
 - TeeJet Nozzle/Floodjet 0.08 (white) or larger
 - Boomless Nozzle 0.10 or larger
- All of these rates are in concentrated tea.
- DILUTE EcoTea™ HDI 1:3 or more with DE-CHLORINATED water
- We recommend to keep EcoTea™ agitating and/or aerating in tank during application
- **If MIX is kept aerating (80-12 L/min) you can extend life of product approx 3 days.**

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- **Use dechlorinated Water ONLY when tank mixing with EcoTea™**
 - Chlorine Water (municipal) needs to be aerated for 1 hour or sit for 24 hours
 - Chloraminated Water needs to be aerated for a minimum of 48 hours

Clean Up:

- **Make sure to wash out equipment with clean water, take nozzles off and let flow! Citric acid, acetic acid, or ammonium solutions are best as cleaning agents.**
- **DO NOT let EcoTea™ sit in liquid kit and/or sprayer after application, clean immediately!**

Comments:

- The EcoTea™ Program consists of three parts, 1) high density inoculum 2) microbial foods 3) liquid catalyst + dechlorinated water (1:3)
- EcoTea™ Soil HDI is biologically engineered to activate a more diverse functionality of beneficial microbial groups. For example, siderophore producers, phosphorus solubilizers, acetic acid producers, phytohormone production, iron scavenging etc.
- This type of a diverse population of microbes stimulates tertiary and quaternary root systems and gives seeds a head start in growth and vigor.
- EcoTea™ Soil HDI is screened to 50 mesh/300 microns; foods and catalyst are water-soluble.
- Overton Environmental stocks compatible nozzles and other specialized application accessories and can ship to producers who cannot source parts locally
- EcoTea™ HDI pricing is dependent on the volume ordered and shipping costs
- EcoTea™ products are an approved input for organic production by Pro-Cert
- EcoTea™ Soil HDI adds “Tilth” to soil overtime, reducing crusting and creating stable soil aggregates.
- ‘Bombarding’ a soil system with as many biodiverse beneficial microbes as possible is the biologically engineered success of EcoTea™.

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Notes:



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Contact Us

Thompsons has staff trained to meet the needs of organic farmers at locations across Ontario.
Please contact your nearest branch to learn more!

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