# Southeast Ag Solutions

## N-Terragate SH Technical Data Sheet

N-Terragate SH microbial product program offers high concentrations of soil microorganisms in a stable, injectable form that is compatible with low flow irrigation systems. Benefits from incorporating the N-Terragate program consist of:

- Repopulation of natural soil microflora.
- Improved nutritional uptake efficiency by break-down of fertilizers into plant available components.
- Improved root health benefits.
- Improvement of soil quality and soil health.
- Providing fatty acid production at root zone.
- Available as part of the Renegade program or stand alone.

**DIRECTIONS FOR USE**: Product should be installed by a qualified personnel. Dosages can vary depending on soil conditions, water usage and scheduling, and other farm management practices. As a starting point:

1 drum of N-Terragate SH is designed to be dosed at a rate of 2-6 ounces of product treated per/day, per/acre.

During the initial start-up of a N-Terragate program, dosage should be doubled for the first 2 weeks (4-12 ounces per/acre), then adjusted to the maintenance dosage for the remainder of the treatment period.

**Chemical Analysis**

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|---|---|---|---|
| **PHYSICAL FORM** | *Liquid* | **SOLUBILITY IN WATER** | *99+%* |
| **COLOR** | *Tan Liquid* | **VISCOSITY** | *1.0 centipoise at $20^0$C* |
| **ODOR** | *Non-objectable, musty odor* | **SPECIFIC GRAVITY** | *1.01* |
| **MOLECULAR WT.** | *N/A* | **BULK DENSITY** | *8.35 lbs/gal.* |
| **pH** | *7.0 +/- 0.5* | **VAPOR PRESSURE** | *Same as water* |
| **BOILING POINT** | *$100^0$ C* | **VAPOR DENSITY** | *Same as water* |
| **MELTING POINT** | *N/A* | **FREEZING POINT** | *$0^0$ C* |

**Microbiological Analysis**

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|---|---|---|---|
| **TOTAL PLATE COUNT (cfu/ml)** | *Minimum = $7.5x10^8$* | **MICROBIAL STRAINS** | |
| **YEAST & MOLD (cfu/ml)** | *Maximum = BDL* | Bacillus *subtilis* | Bacillus *megaterium* |
| **COLIFORM ORGANISMS (cfu/ml)** | *Maximum = BDL* | Bacillus *subtilis* | Bacillus *licheniformis (x2)* |
| **SALMONELLA (375 ml)** | *Maximum = BDL* | Bacillus *plantarum* | Bacillus *amyloliquefaciens* |
| **NTO (cfu/ml)** | *Maximum = $1x10^3$* | Bacillus *amyloliticus* | Bacillus *altitudinus* |