

# PHYCOTERRA® ST JUG MIXING INSTRUCTIONS + PH NEUTRALIZATION GUIDE



EASY INSTRUCTIONS FOR MIXING PHYCOTERRA® ST WITH LIVE INOCULANTS.

**IMPORTANT:** Entire jug/product must be used within **24 hours** of stabilizer being added to PhycoTerra® ST

## HYDROXIDE METHOD

(Potassium Hydroxide 45%)

### STEP 1

#### Option 1

Open cap of jug. Agitate product by using a power drill with a paint mixing attachment. Use the lowest speed setting and in reverse on the drill to prevent splattering.

#### Option 2

Leave the cap on the jug. Shake the jug vigorously for 30-45 seconds – shaking from side-to-side and upside down.



### STEP 2

Read the SDS and utilize proper PPE. Open the cap of the jug and pour 1 bottle of Potassium Hydroxide, the pH Stabilizer (5.67 oz) provided by Heliae® Agriculture & shipped separately, into the jug.

### STEP 3

#### Option 1

Mix the stabilizer and the product together by using a power drill with a paint mixing attachment. Use the lowest speed setting and in reverse on the drill to prevent splattering.

#### Option 2

Replace cap on the jug. Shake the jug vigorously for 30-45 seconds.

**NOTE:** The stabilizer can make the product “foam” or swell, if overmixed.

### STEP 4

Once the solution is mixed, let the jug settle and wait **2 minutes** for the stabilizer to neutralize the pH in the solution.



### STEP 5

Remove cap and confirm the solution contents have reached pH level of 6.0 or higher.

### STEP 6

Empty jug contents into tank or seed treater.



# NEUTRALIZING PHYCOTERRA® ST DIRECTLY IN KEG FOR LIVE INOCULANT USE



**IMPORTANT:** Use product in its entirety within **24 HOURS** of neutralization.

- Upon receipt of product, slowly unthread the black drill mixer access to relieve any pressure/vacuum.
- Remove the threaded white plug covering the drill key access.
- Mix the product for ~2 minutes by using a cordless drill, with provided drill key.
- Unthread the outer bushing that holds the micromatic key valve and dip tube.

## PROVIDED

### HYDROXIDE METHOD

(Potassium Hydroxide 45%)

1. Read the SDS and utilize proper PPE.
2. Open the provided bottle of Potassium Hydroxide.
3. Pour the bottle slowly through the port where the dip tube was removed.
4. Agitate the keg contents for 2 minutes by using the integrated mixer.
5. Confirm the keg contents are now above a pH of 6.0.

## ALTERNATIVE PROTOCOL

### 0-0-30 METHOD

(Potassium Carbonate)

1. Read the SDS and utilize proper PPE.
2. Measure out 50 oz (approximately 1.5 quarts) of 0-0-30 potassium carbonate solution.
3. Add the 0-0-30 in small amounts through the dip tube port while mixing the keg. Wait for foam to dissipate before adding additional 0-0-30. Add defoamer (not included) as needed.
4. Agitate the keg contents for 2 minutes by using the integrated mixer.
5. Confirm the keg contents are now above a pH of 6.0.

