TECHNICAL DATA SHEET

TZB-STAM

INHIBITS THE ACTIVITY OF THE ENZYME UREASE THAT CONVERTS INTROGEN AN UREA TO AMMONIA.

Benefits of use:

- Inhibit the formation of odors;
- Control odors before and during processing;
- Provide odor mitigation during and after processing;
- Environmentally safe: derived from natural plant extract; no chemicals, dyes or fragrances.

SPECIFICATIONS

Description	Brown, free-flowing liquid
Packaging	20.37 kg and 208.82kg plastic containers
Stability	Stable
pH	6.0 – 7.0 when mixed with water
Specific Gravity	1.10 -1.20
Nutrient Content	Biological nutrients and stimulants
Storage and Handling	DO NOT FREEZE! Store in a cool dry location. Do not inhale mists. Avoid excessive skin and eye contact. See MSDS.

MODE OF ACTION

The major component of TZB-STAM inhibits the activity of the enzyme urease, which facilitates the conversion of nitrogen and urea to ammonia. Although the mode of action is unclear, the principal components tend to immobilize the enzyme.

In wastewater bio-solids, the lack of odor being generated by the sludge material is generally attributed to activity against the anaerobic bacteria. The mode of action is believed to be a weakening of the cell wall by the surfactants, and a disruption of their environment severe enough to cause a reduction or elimination of the polulations. The components are powerful surfactants composed of an aglycone and linked to one or more sugar chains, which form glycosides. The glycosides provide the sugar to the composting process and become a feed source for the aerobic bacteria.