

# PRODUCT DATA SHEET FOR BROILERS



## Poultry Litter Treatment

*The Science of Litter Management*

PLT® litter acidifier has proven to be the most effective and economical litter treatment available, used in tens of thousands of commercial poultry houses around the world. PLT® creates a beneficial environment in the poultry house by controlling ammonia released from the litter and reducing litter pH levels, allowing birds to optimize their genetic potential. The ammonia bound by PLT® reduces environmental emissions and increases the nutrient value of poultry litter.

### PHYSICAL DESCRIPTION

Appearance: Dry, white granular product. Odor: Slightly acidic, non-offensive.

### USES

PLT® can be utilized with broilers, breeders, turkeys, commercial pullets and layers, quail, pheasants, ducks and any other litter-based operation.

### PACKAGING

- 50 pound (25 kg) poly-vinyl bags
- 2,000 pound (2,200 metric ton) super sacks on pallet

### APPLICATION

- PLT® is applied only once, as close to bird placement as possible.
- Due to its uniformity, PLT® application is quick and easy.
- Can be applied with any type of spreader.
- Commercial application is available in certain areas of the United States.
- Only litter amendment that can be safely applied with birds in the house.

### BENEFITS

#### Ammonia Control/Fuel Savings

- Immediately binds ammonia in the treated area of the poultry house.
- Reduces urease production.
- Reduces ammonia released from the litter.
- Ammonia bound in the litter increases fertilizer value.

#### Litter Acidification

- Lowers the pH of poultry litter from an average 8.5 down to 1.5 on the pH scale.
- Acidifying litter dramatically improves litter ecology.

#### Safe Reuse of Litter

- Use of PLT® before each flock extends life of the litter.
- Saves the cost of new litter and cleanout.
- PLT®-treated litter is good for crops and the environment.
- Turns volatile ammonia into stable ammonium sulfate increasing the fertilizer value of the litter.



## APPLICATION PROCEDURE FOR BROILERS

1. Close poultry house up tightly immediately after prior flock is moved. Ventilate only enough to prevent moisture condensation. This will help to release ammonia from the litter. Ventilate to remove ammonia when personnel are working in the house.
2. Remove caked and wet areas from the surface of the litter immediately after the last flock moves out. Do not disturb deep litter—DO NOT TILL.
3. Turn on brooders to preheat the litter to increase ammonia release from the litter prior to bird placement. The floor temperature should be a minimum of 85°F (30°C) for at least 48 hours. Heating the litter helps release ammonia and moisture stored in the litter before birds are placed.
4. Prepare houses as normal for chick placement.
5. If applying on built-up litter; then fifteen (15) minutes before PLT® application, open inlets fully and turn fans on OR drop sidewall curtains to exhaust ammonia as quickly as possible. Once ammonia gas is exhausted, turn fans off or close sidewall curtains. This prevents PLT® from being wasted on ammonia already released.
6. **PLT® litter acidifier ammonia control application rates:**
  - **Broiler litter 1 year old or less: 75-100-lbs./1,000 sq. ft. (37-49 kg/100 m<sup>2</sup>) of floor space**
  - **Broiler litter older than 1 year: 100-150-lbs./1,000 sq. ft. (49-73 kg/100 m<sup>2</sup>) of floor space**Extreme conditions such as windrowing or special circumstances may require higher application rates.
7. Apply PLT® on TOP OF THE LITTER EVENLY 2-24 hours prior to bird placement. A broadcast or drop spreader can be used to apply PLT®. DO NOT INCORPORATE PLT® INTO THE LITTER.
8. Ventilate house to maintain a relative humidity between 50% and 70% while the birds are in the brood chamber. This will help minimize ammonia production, improve longevity of PLT® and provide the optimum environment for the birds. Humidity above 70% will cause litter caking and increased ammonia production.
9. After bird placement, humidity will rise gradually. Check relative humidity levels frequently to control moisture and avoid **unnecessary over-ventilation**.
10. PLT® litter amendment activation is not dependent on litter temperature. Relative humidity of 50%-70% is recommended for proper activity.
11. PLT® can be safely applied or re-applied with birds in the house at any time.

## PAD ACIDIFICATION

1. **Completely** clean out old litter from house. The thick dark, wet decayed litter on the floor **MUST** be removed. Corners and footings should be swept or shoveled if necessary.
2. Wash and disinfect house as desired. Allow time for dirt pad to dry completely. Disinfectants with an acidic pH are preferred.
3. Apply PLT® directly to surface of DRY dirt pad at rate of 100-150 lbs./1000 sq. ft. (49-73 kg/100 m<sup>2</sup>)
4. If desired, apply insecticides to dirt pad during or after PLT® application.
5. Install dry bedding material.
6. Prepare house as normal for bird placement.

## PROPER USE AFTER IN-HOUSE COMPOSTING OR WINDROWING

In order to maintain air quality and ammonia levels below 25 PPM during brooding, much higher rates of PLT® will be necessary to neutralize the high ammonia challenge created from windrowing litter. In general, PLT® application rates need to be increased by 50-100% over the normal rate for the house type and litter age. Houses that would normally use 75 lbs./1000 sq. ft. (37-49 kg/100 m<sup>2</sup>) of PLT® should now use 125 lbs (57kg). If your normal application rate is 100 lbs./1000 sq. ft. (49-73 kg/100 m<sup>2</sup>) you should increase to 150-200 lbs./1000 sq. ft. (73-91 kg/100 m<sup>2</sup>) in order to be able to counteract the high levels of ammonia being released when litter is leveled and pre-heated after windrowing.

## PROPER STORAGE AND HANDLING INSTRUCTIONS

When applying PLT®, please wear the following protective items: Safety goggles, long pants with pant leg outside of boot or shoe, long sleeve shirt, gloves and dust mask. Store PLT® in a dry area and tightly re-seal open bags when storing. Be sure to prevent exposure from moisture prior to application.

**DO NOT MIX** PLT® with liquid chlorine bleach, ammonia cleansers or similar products.

## QUALITY AND SAFETY

- Non-hazardous per current U.S. Department of Transportation definition
- Produced following a Quality Management System certified to the ISO 9001:2008 Standard
- GMO-Free
- BSE-risk free material

