

PLT® - POULTRY LITTER TREATMENT

- Immediately binds ammonia for improved air quality
- Lowers pH of poultry litter creating an environment unfavorable for bacteria growth
- Paw quality improves
- Enables safe reuse of litter—eliminating cost of new litter and cleanout
- Ammonia bound in litter increases the nitrogen fertilizer value which is beneficial to crops and forages
- Can be safely used anytime throughout the growout cycle
- Can be applied with any type of spreader or with professional application services



PRODUCT DATA SHEET FOR BROILERS

PLT® litter treatment lowers litter pH and eliminates ammonia for improved air quality in poultry houses. As the only litter treatment that can be safely applied with birds in the house, PLT helps maintain air quality and acidifies litter from placement through growout. Plus, PLT helps poultry producers decrease ammonia and greenhouse gas emissions and increase the nutrient value of poultry litter.



**Sodium Bisulfate has been reviewed by EPA's Safer Choice Program and qualifies for use in Safer Choice-labeled products.*



For optimal performance of PLT and to gain the maximum performance benefits for birds, the following application procedures are recommended.

APPLICATION PROCEDURE FOR BROILERS

1. Close poultry house up tightly immediately after flock. Ventilate only enough to prevent moisture condensation. This will help to release ammonia from the litter.
2. Decake and remove 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 set temperature 48 hours prior to chick placement. Heating litter causes a large purge of ammonia and moisture regardless of the litter's starting temperature. Preheating 48 hours in advance of chick placement allows time for this purge to occur before chick placement. The more ammonia that is purged at this stage, the longer low ammonia levels will be maintained after PLT is applied.
4. Prepare houses as normal for chick placement.
5. If applying PLT on built-up litter, open inlets fully and turn fans on OR drop sidewall curtains to exhaust accumulated ammonia. 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: 100-125 lbs./1,000 sq. ft. (45-57 kg/100 m²) of floor space
 - Broiler litter older than 1 year: 125-175 lbs./1,000 sq. ft. (57-79 kg/100 m²) of floor space
 - Windrowed litter: 150-200 lbs./1,000 sq. ft. (68-91 kg/100 m²) of floor spaceRecommended rates are based on typical ammonia challenges which can vary based house conditions and litter quality. Extreme conditions such as windrowing, tilling or special circumstances will require higher application rates.
7. Apply PLT on TOP OF THE LITTER EVENLY 2-24 hours prior to bird placement. Using a broadcast or drop spreader or professional application services. DO NOT INCORPORATE PLT INTO THE LITTER.
8. Ventilate house to maintain a relative humidity (RH) between 50% and 70% while birds are in the brood chamber. Humidity above 70% will cause litter caking and increased ammonia production. Check RH levels frequently to control moisture and optimize ventilation standards. This will help minimize ammonia production and improve the longevity of PLT. PLT activation is not dependent on litter temperature.
9. PLT can be safely applied or re-applied with birds in the house at any time for ammonia or litter acidification.



Determine your custom application rate with our PLT pHacts mobile app.

PAD ACIDIFICATION

1. Completely clean out litter from house. The thick dark, wet and 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 150-200 lbs./1,000 sq. ft. (68-91 kg/100 m²)
4. Install dry bedding material. 24-48 hours after PLT application.
5. Prepare house as normal for bird placement.

RECOMMENDATIONS FOR USE IN ANTIBIOTIC-FREE BROILERS

1. Apply PLT to the entire house at 125-200 lbs./1,000 sq. ft. (57-91 kg/100 m²) 12-24 hours prior to placement to allow sufficient contact time for best litter acidification.
2. Re-apply PLT at a rate of 100-125 lbs./1,000 sq. ft. (45-57 kg/100 m²) at 13-15 days of age to the entire house for additional ammonia control and litter acidification.

Management Recommendations for ABF Programs:

- Thoroughly clean and sanitize waterlines between flocks
- Implement a robust insect and rodent control program
- Use a direct fed microbial in the starter feed
- Pay particular attention to litter curing during downtime
- Pay particular attention to proper pre-heating and achieving core litter temperatures of at least 90°F and surface temperatures of 94°F at chick placement

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. Wash and disinfect equipment immediately after application using a strong, alkaline disinfectant.

QUALITY AND SAFETY

- Non-hazardous per U.S. Department of Transportation definition
- Sodium Bisulfate is on the EPA Safer Choice Program Safer Chemical Ingredient List
- Produced following a Quality Management System certified to the most current ISO 9001 standard
- GMO-Free, BSE-risk free material



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