

PRODUCT DATA SHEET



LS-PWT²® contains the strongest animal feed grade mineral acid available. A much lower additional rate is required to acidify drinking water to biologically effective low pH levels. This lower addition rate provides pH reduction with no bitter taste. Birds and livestock won't back off from LS-PWT²®-treated water, so optimum water consumption is maintained.

PHYSICAL DESCRIPTION

Appearance: Dry, white granules. Odor: Slightly acidic. Solubility: Readily soluble in water.

INGREDIENTS

Specialty formulated sodium hydrogen sulfate and proprietary ingredients.

PACKAGING

Bulk: 40 pound (18 kg) bulk bucket with scoop

Bulk: 40 pound (18 kg) bag

MIXING INSTRUCTIONS

Determining LS-PWT²® Stock Solution Strength

1. Test existing water pH and alkalinity in water lines.
2. Determine which target pH is desired for general acidification or chlorine enhancement from the LS-PWT²® Recommended Usage Rate Chart.
3. Determine LS-PWT²® dosage from Recommended Usage Rate Chart.
4. Add LS-PWT²® dosage to four gallons (15 liters) of water to create stock solution.
5. Administer the stock solution at a rate of 1:128.

Note: More or less LS-PWT²® may be needed to achieve desired target pH.

LS-PWT²® Recommended Usage Rate Chart

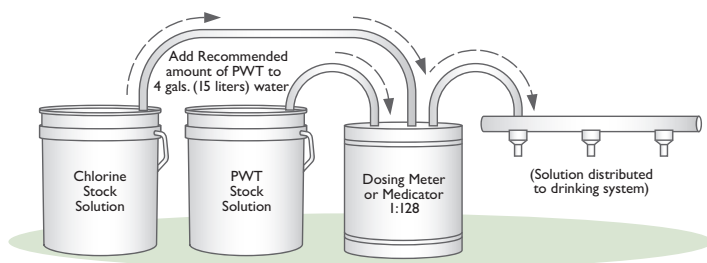
Number of LS-PWT ² ® Scoops	General Acidification Target pH of 3.0-4.0	Chlorine Enhancement Target pH of 5.5-6.5
1 scoop	pH 7-8 AND Alkalinity < 115	pH 7.5-9.1 AND Alkalinity 77-150
2 scoops	pH 8-9.1 AND Alkalinity 115-192	pH 7.6-9.1 AND Alkalinity 192-385
3 scoops	pH 8.5-9.2 AND Alkalinity 231-350	pH > 9 OR Alkalinity > 400
4 scoops	pH > 8.9 OR Alkalinity > 350	

1 scoop equals 1 pound (.45 kg)

LS-PWT²® application may be used for general acidification only or for maximizing chlorine effectiveness.



LS-PWT²® APPLICATION PROCEDURE



When chlorinating the drinking water, administer LS-PWT²® continuously at a rate necessary to maintain water pH around 6.0 at bird level. NEVER ADD CHLORINE DIRECTLY INTO THE LS-PWT²® STOCK SOLUTION.

GENERAL ACIDIFICATION USE WITH LS-PWT²®

*Please refer to the front side for determining the stock solution strength required to achieve a pH of 3.0-4.0. Mix the required amount of LS-PWT²® into 4 gallons of water to make a stock solution. Administer the stock solution at a rate of 1:128. It's recommended to mix in larger quantities during high consumption periods to avoid interruption in continuous administration.

BROILERS

1. Mix LS-PWT²® stock solution.*
2. Prime drinking system with LS-PWT²® prior to placement. Administer continuously the first 7-10 days after placement.
3. Administer LS-PWT²® 1-3 times per week and/or 48-72 hours before and after each feed change.
4. Administer LS-PWT²® continuously the last 24-48 hours prior to catch.

Heat Stress or Other Stress Periods

Administer LS-PWT²® continuously during times of heat stress and reduced feed consumption

Free Range/Chemical Free Programs

Administer LS-PWT²® continuously to reduce impact of free range/chemical free programs.

PULLETS AND BROILER BREEDERS

Pullets

1. Mix LS-PWT²® stock solution.*
2. Prime drinking system with LS-PWT²® prior to placement. Administer continuously the first 7-10 days after placement.
3. Administer LS-PWT²® continuously every day off feed until movement (i.e. if birds are fed Mon/Wed/Fri, deliver LS-PWT²® on Sun/Tues/Thurs/Sat).

Broiler Breeder Hens

1. Mix LS-PWT²® stock solution.*
2. Prime drinking system in breeder house with LS-PWT²® prior to transfer. Administer continuously the first 7-10 days after transfer into breeder house.
3. Administer LS-PWT²® continuously for 48 hours before and after any stress period such as vaccination, heat stress, etc.

Commercial Turkeys

1. Mix LS-PWT²® stock solution.*
2. Prime drinking system with LS-PWT²® prior to placement. Administer continuously the first 14-21 days after placement.

3. Administer LS-PWT²® 1-3 times per week and/or 48-72 hours before and after each feed change.
4. Prime drinking system with LS-PWT²® prior to transfer to grow-out barn. Administer continuously the first 7 days after transfer.
5. Administer LS-PWT²® continuously the last 24-48 hours prior to catch.

TURKEY BREEDERS

1. Mix LS-PWT²® stock solution.*
2. Prime drinking system with LS-PWT²® prior to placement. Administer continuously the first 14-21 days after placement.
3. Administer LS-PWT²® 1-3 times per week and/or 48-72 hours before and after each feed change.
4. Prime drinking system with LS-PWT²® prior to transfer to breeder barn. Administer continuously the first 7 days after transfer.
5. Administer LS-PWT²® 1-3 times per week and/or 48 hours before and after each feed change.

COMMERCIAL EGG LAYERS

Pullets

1. Mix LS-PWT²® stock solution.*
2. Prime drinking system with LS-PWT²® prior to placement. Administer continuously the first 7-10 days after placement.
3. Administer LS-PWT²® continuously for 48 hours before and after any stress period such as vaccination, heat stress, etc.

Layers

1. Mix LS-PWT²® stock solution.*
2. Prime drinking system in layer house with LS-PWT²® prior to transfer. Administer continuously the first 7-10 days after transfer into layer house.
3. Administer LS-PWT²® continuously for 48 hours before and after any stress period such as vaccination, heat stress, etc.
4. Administer LS-PWT²® continuously from 48 hours before beginning of molt until 7 days after birds resume full feeding.

WATER LINE CLEANING AND SANITATION WITH LS-PWT²®

In Between Flocks

When cleaning between flocks, mix 2-4 scoops of LS-PWT²® with 4 gallons (15 liters) of water to make a stock solution.

Note: Extremely "hard" water may require higher amounts of LS-PWT²® to reach the desired pH level. Administer the stock solution at a rate of 1:128. Allow a minimum of 8 hours for cleaning and descaling, but do not exceed 24 hours with cleaning solution in water lines. Flush drinking system thoroughly with clean water.

During the Flock

Run 1-2 scoops of LS-PWT²® through drinking system to clean water lines after administering other water additives such as sugar, vitamins or powdered milk.

LS-PWT²® CERTIFICATIONS

- FDA approved-GRAS
- Manufactured under GMPs
- ISO 9002-2000 certified facility
- Made in the U.S.A.

