AgroChem INC.
FARM & DAIRY PRODUCTS

EPA Registration Numbers:

HayFresh82808-2

ForageGuard 82808-1

How do losses occur without preservatives?

Fungus spores are always present in every environment and when you store feeds they start to grow. Without a good inhibitor, growth is rampant and continues until all oxygen is depleted at which point fungus and mold growth stops until air is re-introduced (which happens when you open a bale, a silo, or a silage face). Growth explodes in a TMR mix, destroying palatability.

You lose feed value in four ways:

- When mold eats the food you were saving for your cattle
- When heating by bacteria and mold speeds the chemical breakdown of feed
- When cows sort through the feed, leaving mold-tainted components behind
- When micotoxins produced by mold upset rumen flora balance and digestion is impaired

Total losses can easily reach 20%. If you make 50 acres of hay, it's like burning 10 of them. HayFresh and ForageGuard prevent this loss.

AgroChem hay & feed preservatives...

- Enable you to bale at higher moisture levels
- Keep hay and forages greener and prevents the loss of feed value
- Are easy to apply with even coverage
- Are non-corrosive, buffered formula won't damage baling equipment, staff, or your livestock
- Keep hay and forages fresh and ready-to-use for years in storage
- Are safe for use at all temperatures and will not freeze

Usage Rates for HayFresh and ForageGuard:
(not recommended for hay above 30% moisture)

	Small Square /Large Round Balers		Large Square Balers	
Hay Moisture	Stem Moisture	Dew Moisture	Stem Moisture	Dew Moisture
16%-22%	4lb / ton	2lb / ton	6lb / ton	3lb / ton
22%-26%	8lb / ton	6lb / ton	10lb / ton	8lb / ton
27%-30%	16lb / ton	12lb / ton	do not bale	16lb / ton

Item Numbers:

HayFresh:	ForageGuard:
50gal- # 7104	50gal- # 7204
275gal- # 7105	275gal- # 7205
Bulk- # 7106	Bulk- # 7206

Ingredients

HayFresh:
81% Total Acids- 68% Buffered Propionic Acid
Additional Organic Acids: 6% acetic acid, 4% citric acid, 1% sorbic acid, 1% benzoic acid, 1% surfactant; Other Ingredients: ammonium hydroxide, propylene glycol USP, water

ForageGuard:
68% Total Acids- 68% Buffered Propionic Acid
Other Ingredients: ammonium hydroxide, propylene glycol USP, water

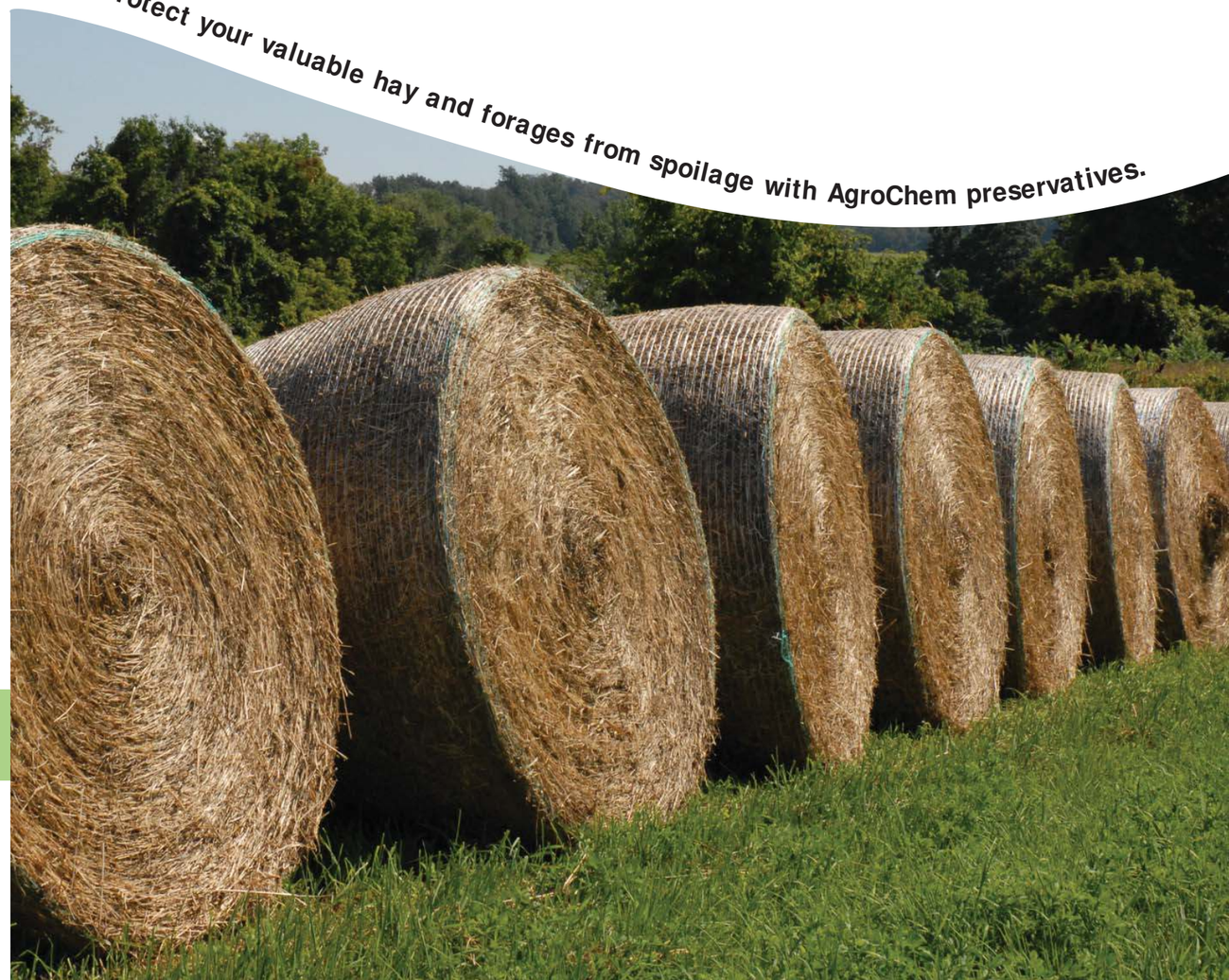
AgroChem, Inc., 3 Duplainville Rd, Saratoga Springs, NY 12866
Phone: (518) 226-4850 Fax: (518) 226-4853

www.agrocheminc.com

AgroChem INC.
FARM & DAIRY PRODUCTS

HAY & FEED PRESERVATIVES

Protect your valuable hay and forages from spoilage with AgroChem preservatives.



HayFresh

"In these parts, you just never get hay dry enough to bale without a preservative. I wouldn't even try. HayFresh has been giving us and our customers better hay and peace of mind for years. If I were making hay in California it might be different, but the humidity and the risk of rain here forces us to make decisions about cutting and baling that often put us right at the edge of hay-making conditions. I would never bale without HayFresh."

René Bourdeau

Vermont dairyman and expert custom hay baler

To make quality hay, silage, or other stored feeds that keep their value in storage, fungus growth needs to be prevented. When fungus and mold grow they digest and metabolize the high-energy compounds and proteins that are vital to good nutrition. The result is low feed value, feeds that are unpalatable to your animals, and the presence of mycotoxins which can severely upset rumen health.

HayFresh is composed of 68% buffered propionic acid as a fungicide, with 81% total organic acids. HayFresh has components that specifically address the challenges of preserving dry forages.

- Hay leaves have a natural waxy layer which causes liquids to bead, preventing full coverage. HayFresh uses a powerful but safe surfactant to prevent beading and to ensure proper coverage with preservative.
- Chlorophyll is quickly degraded in stored hay. Loss of chlorophyll is easily seen as hay losses its green coloring and is a sign of lost nutrients and palatability. HayFresh includes components specifically geared towards maintaining those nutrients and stabilizing chlorophyll. The proof is in the color of hay treated with HayFresh!
- A number of mycotoxins are produced by the types of molds found naturally on dry, stored forages. These can drastically alter rumen flora balance, sometimes fatally. HayFresh contains a number of inhibitors which reduce the effects of these mycotoxins to safe levels.

Keep it fresh, dry, and green with HayFresh.

HayFresh is applied to hay or forage as it enters the baler.

Also available from AgroChem:

ForageGuard

ForageGuard is a 68% buffered propionic acid that is economical and highly effective. ForageGuard is formulated for use on baled hay, high moisture ear and shell corn, high moisture barley, and other high moisture grains. It is effective in upright silos (oxygen-limiting or conventional), bags and bunkers. Once ensiled, aerobic microorganisms will begin to grow and metabolize nutrients in the grain. The application of Forage Guard will inhibit the growth of aerobic molds and yeast until fermentation is completed.

ForageGuard will also provide aerobic stability at feed out when the grains are again exposed to aerobic microorganisms. The recommended application is at a rate of approximately 3-6lbs of ForageGuard per ton of grain. To reduce the growth of molds and reduce heating of TMR mixes, add approximately 2-4lbs of ForageGuard to the mix.