

MOLD-LESS

(Feed Additive)

MOLD-LESS is a free flowing dry mold inhibitor for use in grain and prepared (processed) feeds.

WHAT IT DOES:

Kills and prevents the growth of molds by very quick activity when mixed with feeds or grains.

Special formulated carrier controls the active release over a 3 to 4 day period to give fast, and prolonged protection against mold growth.

ACTIVE INGREDIENT:

Propionic acid, 50%. Propionic acid is known in the industry as today's best active to inhibit the growth of, and kill molds. See chart showing other active ingredients.

PROPERTIES: (a)

Physical: Small granular particle size, free flowing solid dry material.

Color: Medium brown.

Density: 34-36 lb. per cubic ft.

Flash point: 195 F

Freezing point: 0 F

(a) Listed as a guide only. Individual shipments may vary slightly.

PACKAGING:

50 pound or 25 kg. multi walled, aluminium foil lined, heat sealed bags. This packaging offers greater shipping protection and long shelf life, which is up to 2 years if unopened and stored in dry cool areas.

SPECIAL CARRIER:

* The special formulation of vermiculite and calcium bentonite cause the active to be released in a manner to give an early, quick kill, PLUS, gives 3 to 4 days residual activity after application.

* Small, uniform particle size gives complete dispersion (mixing) throughout the grain / feed mixture. This helps give better protection from mold growth and the resulting toxins.

* No special equipment is required for handling and mixing MOLD-LESS. The product is dry for complete and thorough mixing.

* Vapor action is recognized as the best method to rid feeds and grains of unwanted molds and their resulting toxins.

* May be mixed in feeds for all animals.

HOW IT WORKS:

MOLD-LESS when mixed with processed feed or whole grains, starts giving off vapors quickly to kill mold growths. The vapor action continues for 3 to 4 days. Within 6-8 hours after starting their growth, molds may cause bridging, caking, musty odors, loss of nutrients, as well as the loss of palatability of grains and feeds.

RULES OF THUMB FOR MOLDS/TOXINS.

1. Assume each shipment of grain and or ingredients have some mold. Sample testing is the only way to determine how contaminated a shipment may be.
2. The better the grain quality, especially corn in terms of fines, the less chance of serious mold contamination. Research has shown, CCFM, (cracked corn and foreign matter) have a much higher incidence of molds, (more surface area exposed) than whole kernels. This applies to all feedstuffs used today.
3. Molds usually grow better, and sometimes faster, after a shipment of grain has been handled or moved, (air and humidity added). However, experience has shown that only the molds themselves, decide when to grow and reproduce.
4. Toxins which have harmful effects on livestock and poultry, are the result of, or a by-product of, mold growth. To control toxins in a grain or feed, we must control the growth of molds. Some molds are present before field harvesting.
5. Blending two shipments of a grain or feed, (one high in mold or toxins, and one low), is only a temporary, short term solution to the problem. When conditions are correct, and in a very short time, the blended product, may have as high or higher levels of mold or toxins than the highest of the original two. Research has shown molds may start reproducing and forming toxins within 6 to 8 hours, if conditions are correct.
6. Once toxins are present in a grain or feed, blending different lots or shipments of the grain or feed, is the only way to reduce total toxins in the final mixed product, however as stated above. the molds may start to grow and the problem may be worse.
7. Using a mold inhibitor, is the only way to prevent further development of molds, and the resulting toxins in grains and feeds, when conditions are right for mold growth.

COMPARATIVE EFFECACY OF MOLD INHIBITORS (CO2 TEST)

	Percent Feed *****	Percent Inhibition *****	Weeks Active *****
Propionic Acid	50.0	0.15	4
Calcium Propionate	77.5	0.15	3
Sorbic Acid	100.0	0.15	2
Formic Acid	99.0	0.15	1
Ammonium Propionate	65.0	0.15	4

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