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## Specification Sheet

# Grain SHIELD<sup>®</sup> brand Liquid Mold Inhibitor

**DESCRIPTION** A fungicide for the control of molds and fungi in high-moisture grains.

**ACTIVE INGREDIENT** Propionic Acid - 70.5%

**INERT INGREDIENTS** 29.5%

### DIRECTIONS

Use Grain SHEILD<sup>®</sup> brand Liquid Mold Inhibitor on corn, oats, barley, wheat and sorghum. Do not use on grain that may be used for seed or malting.

Determine the moisture content of grain and treat within 4 hours of harvest for on farm storage and/or prior to transport and storage. Apply in the form of a spray. Properly calibrate the KEMIFLO<sup>®</sup> applicator (or other applicator equipment compatible with propionic acid usage) before applying Grain SHIELD. Use this product at recommended rates given.

RECOMMENDED RATE OF Grain SHIELD Liquid Mold Inhibitor PER TON OF MOIST CORN, SORGHUM, WHEAT, OATS OR BARLEY IN COVERED STORAGE\*

Duration	Moisture Content, Percent by Weight		
	Below 15.5%	15.5 – 20%	21-30%
Up to 4 weeks*	2 lbs/ton	4 lbs/ton	8 lbs/ton
Up to 6 months*	4 lbs/ton	8 lbs/ton	12 lbs/ton
Up to 12 months	6 lbs/ton	12 lbs/ton	16 lbs/ton

- Not recommended if grain is to be kept in storage beyond May 1.

Wood and concrete structures are ideal covered storage facilities for Grain SHIELD-treated grain. Do not store in upright tile, stave, or concrete bunker silos, or on the ground in plastic covered piles. Protect metal and concrete surfaces against corrosion. Be sure all concrete or dirt floors are covered with plastic (4-6 mil thickness). Seal and construct pit or trench storage areas to prevent water entry.

RECOMENDED RATE OF Grain SHIELD PER TON OF MOIST CORN, SORGHUM, WHEAT, OATS OR BARLEY IN OPEN STORAGE\*\*

Duration	Moisture Content, Percent by Weight		
	Below 15.5%	15.5 - 20%	21-30%
Up to 4 weeks	4 lbs/ton	6 lbs/ton	10 lbs/ton
Up to 6 months	8 lbs/ton	12 lbs/ton	16 lbs/ton
Up to 12 months	12 lbs/ton	18 lbs/ton	24 lbs/ton

\*\* It is recommended that open storage shall be limited to the following areas of low precipitation: Nebraska (excluding S.E. corner), Western Kansas, Western Oklahoma, Texas Panhandle, Eastern New Mexico, Eastern Colorado and S.E. Wyoming. All such grain must be fed out before May 1 of the following spring.

Acceptable outdoor storage areas are bunkers, pits, or slabs with concrete or asphalt floors; do not store grain on dirt surfaces. Dirt or wooden walls must be lined with plastic. Do not cover grain surface. Seal and construct storage areas to prevent water entry and slope floor area for drainage. Store in long, rounded piles.

**EPA REGISTRATION NO.** 8596-33      **EPA EST.** 8596-IA-001 and 8596-TX-002

**NOTE:** This product is regulated by the Environmental Protection Agency. Please refer to the product label for complete directions and precautionary statements prior to use.

**STORAGE**      Store in a warm, dry place above 40°F to prevent freezing.

**QUALITY SPECIFICATIONS:**

SPECIFIC GRAVITY 1.065 – 1.1

**TYPICAL CHARACTERISTICS:**

pH 4.4 – 4.8

COLOR Light amber

ODOR Sharp Pungent

WEIGHT PER GALLON 9.02 lbs/gal

VISCOSITY 45 – 50 cps at 25° C