

PM22

8596-33

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U.S. ENVIRONMENTAL PROTECTION AGENCY  
Office of Pesticide Programs  
Registration Division (7505C)  
401 "M" St., S.W.  
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

8596-33

AUG 2 1999

Term of Issuance:

Conditional

Name of Pesticide Product:

Grain Shield

NOTICE OF PESTICIDE:

Registration  
 Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Mr. Steven J. Ziegenfuss  
Kemin Industries, Inc.  
2100 Maury Street, Box 70  
Des Moines, IA 50301-0070

~~On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.~~ This registration must be submitted to the Agency for reregistration. In any correspondence on this product always refer to the EPA Registration Number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for reregistration of your product under FIFRA section 4.
2. Modify the labeling as follows:
  - a. Revise the EPA Registration Number to read, "EPA Reg No 8596-33".

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Signature of Approving Official:

*(Signature)*

Cynthia Giles-Parker  
Product Manager (22)  
Fungicide Branch  
Registration Division (7505C)

Date:

AUG 2 1999

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3. Submit one copy of the revised final printed label for the record.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records. If you have any questions, then please contact me at 703-305-7740 or María I. Rodríguez of my staff at 703-305-6710.

#### DIRECTIONS FOR USE

It is a violation of federal law to use this product in a manner inconsistent with its labeling. Grain SHIELD is a fungicide for the control of molds and fungi on high-moisture grains. Use Grain SHIELD on corn, oats, barley, wheat and sorghum. Read the entire label. Use strictly in accordance with precautionary statements and directions for use. 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® 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 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.

#### RECOMMENDED 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.



# Grain SHIELD®

LIQUID  
PRODUCT 12345

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

ACTIVE INGREDIENT: Propionic Acid ..... 70.6%  
INERT INGREDIENTS: ..... 29.5%  
TOTAL ..... 100%

This product contains 9.02 lbs Grain SHIELD per gallon.

FOR HIGH MOISTURE GRAIN  
- EASY TO USE -

KEEP OUT OF REACH OF CHILDREN  
DANGER

PRECAUTIONARY STATEMENTS  
Hazards to Humans and Domestic Animals  
DANGER

Corrosive: Causes irreversible eye damage. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. Wear long-sleeved shirt and long pants, socks and shoes, goggles or face shield and chemical resistant gloves such as Nitrile, Butyl, Neoprene, and/or Barrier Laminate. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash waters.

#### STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention. IF ON SKIN: Immediately wash with plenty of soap and water. Get medical attention. IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention.

#### KEMIN INDUSTRIES, INC.

2100 Maury St., Box 70  
Des Moines, IA U.S.A. 50301-0070  
1-800-777-8307

EPA Registration No. 8596-  
EPA Est. 8596-IA-001

24-hr. Emergency Contact: Chemtrec (800) 424-9300

IF SWALLOWED: Call a physician or poison Control Center for a large quantity of milk, egg whites, gelatin solution, or if you are allergic to yeast. Avoid alcohol.

Note to physician: Probable mucosal damage may occur.

#### TO SUCCESSFULLY STORE GRAIN, THE FOLLOWING

1. Remove all leaf and stem particles from grain before storage.
2. Clean all storage areas and harvesting machinery of old grain.
3. Treatment inhibits germination. Do not use on seed grain. Grain treated with propionic acid may be classified as 'sample' grain.
4. Apply an approved anti-corrosive and acid-resistant paint to prevent corrosion.
5. Do not treat in the rain. If rain does fall on untreated grain, aerate for moisture content before continuing treatment.
6. Apply in the form of a spray as directed and wash all equipment after each use.
7. Do not mix treated grain and untreated grain or foreign material.
8. Do not store treated grain on bare dirt floors.
9. Check grain in storage frequently for signs of heating. Aeration must be available.
10. Follow established management practices in the handling of grain.

#### STORAGE AND DISPOSAL

Do not contaminate water, food, or feed.

PESTICIDE STORAGE: Store in a warm, dry place above ground level. PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess spray mixture, or rinsate is a violation of Federal law. If you are unable to locate a Hazardous Waste representative at the nearest EPA Regional Office, call the National Pesticide Information Center at 1-800-858-7373. CONTAINER DISPOSAL: Triple rinse (or equivalent) then recycle where available. If not, burn in a sanitary landfill or incineration or if burned, stay out of smoke.

#### WARRANTY

The manufacturer makes no warranties, expressed or implied, that extend beyond the description on the face hereof. All warranties are void when used as directed.

The manufacturer neither makes nor authorizes any agent to make, including warranties of fitness for a particular purpose or merchantability concerning this material. This product is sold only on the basis of handling which result in loss or damage and which are not the fault of the manufacturer. No claim of any kind, whether or not based on negligence, shall be the price of the material in respect of which such a claim is made. The manufacturer is liable for special, indirect or consequential damages resulting from the use of this product in any manner not in accordance with the warnings, or cautions.

This warranty does not extend to, and the buyer shall not be held liable for, any damage which results from the use of this product in any manner not in accordance with the warnings, or cautions.

PRODUCT COLOR CHANGE WILL NOT AFFECT PERFORMANCE

LOT NO. 12345

TAKE TIME



OBSERVE LABEL  
DIRECTIONS

® Trademarks Ke  
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ACCEPTED  
with COMMENTS  
In EPA Letter Dated:  
AUG 2 1999

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act,  
as amended, for the pesticide  
registered under EPA Reg. No. 8596-33