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FEB - 5 1988

Mr. Richard M. Fresh  
Regulatory Specialist  
Zoecon Corporation  
A Sandoz Company  
12200 Denton Drive  
Dallas, TX 75234

Dear Mr. Fresh:

Subject: Revised Label Submission  
Registration Standard for Phosmet  
STARBAR GX-118  
EPA Registration No. 2724-262  
Your Submission Dated July 17, 1987

The revised labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable provided that you make the labeling change listed below before you release the product for shipment bearing the amended labeling.

Revise the Environmental Hazards statement to read:

This pesticide is extremely toxic to fish. Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters. Drift or runoff from treated areas may be hazardous to aquatic organisms in neighboring areas.

10898: I/C: Heyward: LR-15: KENCO: 02/01/88: 03/15/88: Am: VO: EK: Am:  
R: 10895: Heyward: LR-15: KENCO: 2/3/88: 3/17/88: rw

CONCURRENCES							
SYMBOL	ORIGINATOR						
SURNAME							
DATE							

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Submit five (5) copies of your final printed labeling before you release the product for shipment.

A stamped copy of the labeling is enclosed for your records.

Sincerely yours,

George T. LaRocca  
Product Manager (15)  
Insecticide-Rodenticide Branch  
Registration Division (TS-767C)

Enclosure

# STARBAR GX-118

EMULSIFIABLE LIQUID

A BEEF AND NON-LACTATING DAIRY CATTLE INSECTICIDE FOR THE CONTROL OF LICE, CATLE TICKS, SOUTHERN TICKS, WINTER TICKS, LONE STAR TICKS, GULF COAST EAR TICKS, HORNFLIES, SARCOPTIC MANGE, AND SCABIES MITES

AND

A SWINE INSECTICIDE FOR CONTROL OF LICE AND SARCOPTIC MANGE

ACTIVE INGREDIENTS:  
B-(Methoxyethyl) phthalimide  
3-(0,0-dimethyl phosphorothioate)..... 11.46  
SWEET INGREDIENTS..... 88.54

U.S. Patent No. 2,767,194

Contains 1 lb. Active Ingredient per Gallon

EPA Reg. No. 272-262  
EPA Est. No. 272-161

### WARNING

KEEP OUT OF REACH OF CHILDREN

See Other Precautions on Left Panel

Read All Directions Before Using

### GAL NET

MADE IN U.S.A.

ZOCOM INDUSTRIES  
A Division of Zoccon Corporation  
17200 Denton Drive  
Dallas, Texas 75234

STARBAR and GX-118 are trademarks of Zoccon Corporation

PERMATE is a trademark of Steffler Chemical Co.



**HAZARDS TO HUMANS AND DOMESTIC ANIMALS - WARNING:** Causes eye and skin irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed. Avoid breathing spray mist. Applicators must wear long sleeved shirt, long pants, elbow length rubber gloves, waterproof apron, and unlined waterproof boots. Wash all contaminated clothing with soap and hot water before re-use. Wash thoroughly before eating, drinking, or using tobacco.

**STATEMENT OF PRACTICAL TREATMENT:** If in eyes - Rinse immediately with plenty of water. Call a physician immediately. If on skin - Wash promptly with soap and water. Remove contaminated clothing. If swallowed - Call a physician or Poison Control Center immediately. Do not induce vomiting. If spray mist is inhaled - Remove to fresh air. Apply artificial respiration if indicated.

**NOTE TO PHYSICIAN AND VETERINARIAN:** GX-118 is an organophosphate insecticide and a cholinesterase inhibitor. If signs of cholinesterase inhibition are present, atropine is antidotal. 2-PAM is also antidotal and may be administered in conjunction with atropine. If inhaled do not induce vomiting. May present aspiration hazard. Usual symptoms of organophosphate poisoning in man include: headache, blurred vision, weakness, nausea, discomfort in the chest, vomiting, abdominal cramps, diarrhea, salivation, sweating, pin-point pupils. Usual symptoms of poisoning in animals include salivation, labored breathing, loss of balance, staggering, and pin-point pupils.

**ENVIRONMENTAL HAZARD:** This product is toxic to fish, birds, and wildlife. Do not apply directly to water or wetland. Do not pollute, contaminate water by cleaning of equipment or disposal of wastes. Apply this product only as specified on this label.

**PHYSICAL OR CHEMICAL HAZARDS:** Do not use or store near heat and open flame. Protect from temperatures below 20°F.

**DIRECTIONS FOR USE:** It is a violation of Federal law to use this product in a manner inconsistent with its label. BEEF AND NON-LACTATING DAIRY CATTLE Do not treat non-lactating dairy cattle within 28 days of freshening.

See Table for Feedlot Use Only Provision

To Control Tick	FEEDLOT USE ONLY		DILUTION RATE	
	Method To Use	Interval	Pre-slaughter Interval	3 - Day Interval
Hornflies	Spray	1:49	1:150	1:150
Scabies Mites	Dip	1:60	1:49	1:200
Sarcoptic Mange	Dip	1:60	1:60	1:100
Cattle Tick	Dip	1:60	1:60	1:240
Southern Cattle Tick	Dip	1:60	1:49	1:240
Winter Tick	Dip	1:60	1:49	1:100
Lone Star Tick	Dip	1:60	1:49	1:100
Gulf Coast Ear Tick	Dip	1:60	1:49	1:100

To Control Lice	Method To Use	Sarcoptic Mange Spray	DILUTION RATE	
			Pre-slaughter Interval	1 Day Interval
Swine	Spray	1:49	1:100	1:100

**SCABIES MITE CONTROL**  
For control of scabies mites, two treatments, 10-14 days apart are required.

**DIP VET PROCEDURE**  
Prior to dipping vat, empty out old contents and thoroughly clean the vat. Add water to the vat. Add GX-118 at a rate of 1 gallon to each 60 or 240 gallons water. See Storage and Disposal statement on this label.

**Important:** Add super phosphate at a rate of 100 pounds per 1000 gallons of vat solution. Super phosphate is added to control the pH of the solution and insure vat stability. Super phosphate is usually available at most fertilizer dealers as 0-45-0 or 0-46-0.

Stir the vat thoroughly, preferably with a compressed air device; however, any form of thorough mixing is adequate since GX-118 emulsifies readily.

Restir vat contents prior to each use.

### REPLENISHMENT

During the dipping operation, each time the vat's volume is reduced by 1/8 to 1/4 of its initial volume, replenish the vat as follows:  
Replenish vat with water and add GX-118 at a rate of 1 gallon for each 50 or 200 gallons water added.

**Important:** Add super phosphate as necessary to maintain pH between 4.5 and 6.5. Stir well and resume dipping. Repeat replenishment process as necessary. For evaporation add additional water accordingly. For added water due to rainfall, merely replenish vat with GX-118 according to label directions.

### VAT MAINTENANCE

When utilizing the GX-118 Field Test Kit, dipping may continue as long as the Permethrin concentration is maintained and tested to between 0.15% and 0.25%. Replenish the vat with water and add GX-118 at a 1:240 dilution. When the vat is out of use, or satisfactory use was indicated by foul odor or excessive darkening of solution, refer to U.S.D.A. V.S. Memo 556.9 for use of Field Test Kit. Availability of Field Test Kit may be obtained from your STARBAR representative.

When not utilizing the GX-118 Field Test Kit the vat should be emptied, cleaned, and recharged each time one of the following occurs:  
1. When the vat has been charged for 120 days.  
2. When the dip becomes too foul for satisfactory use within the 120 day limit.  
3. If the number of animals dipped equals twice the number of gallons of the initial bath volume within the 120 day limit.

### SPRAY METHOD: CATTLE AND SWINE

At the 1:49 dilution rate, mix one gallon of GX-118 with 49 gallons water and stir thoroughly. Apply the fresh mixture as a high-pressure spray, taking care to wet the skin, not just the hair. Apply to the point of run-off. For cattle, do not apply within 21 days of slaughter. For swine, do not apply within 1 day of slaughter.

At the 1:100 dilution rate, the 1:150 dilution rate, or the 1:200 dilution rate mix one gallon GX-118 with 100 gallons, 150 gallons, or 200 gallons of water respectively, and stir thoroughly. Apply as directed within 3 days of slaughter. For cattle, do not apply within 1 day of slaughter. For swine, do not apply within 1 day of slaughter.

### OFFICIAL ERADICATION PROGRAM

Where GX-118 is recommended in Federal or State eradication programs, it is required that specific use directions be followed. Consult State or Federal authorities for detailed recommendations. Consult the Animal and Plant Health Inspection Service, Veterinary Services.

### WARNINGS

1. GX-118 is a cholinesterase inhibitor. Do not use this product on animals simultaneously or within a few days before or after treatment with other pesticides or chemicals. Atropine is exposure to cholinesterase inhibiting drugs is antidotal. Consult veterinarian at first sign of adverse reaction.
2. Cattle may be slaughtered 21 days after treatment. Cattle treated at a spray rate of 1:100, 1:150 or 1:200 or dip rate of 1:240 may be slaughtered 3 days after treatment.
3. Swine may be slaughtered one day after treatment.
4. In swine, single applications for lice and sarcoptic mange control are usually effective however, it may be made 14 days following first treatment.
5. For swine: do not treat sick, convalescent, or stressed animals. Do not apply directly to sucking piglets.
6. For cattle: do not treat sick, convalescent, stressed, or animals less than 3 months old except in Federal or State eradication programs where immediate treatment of all animals in an infested herd is mandatory. Hand dipping of young animals will prevent swallowing of dip solution.
7. Do not treat non-lactating dairy cattle within 28 days of freshening. If freshening should occur within the 28 day period after treatment that milk must not be used as human food.
8. Be sure free access to drinking water is available to cattle prior to dipping. Do not dip excessively to cattle or overheat animals. Following dipping, allow animals adequate space and ventilation to thoroughly dry. Do not allow animals to become crowded or overheated.
9. Important: In cattle, repeat treatment as necessary, but not more than every 7-10 days. Treatment for lice ticks, scabies mites, sarcoptic mange, and hornfly control may be done in the field or in a dipping vat. For water wear, attention livestock specialist or extension entomologist regarding timing of treatment.

Do not contaminate water, food, or feed by storage or disposal. Waste resulting from the use of this product may be disposed of on site or at approved waste disposal facility. Metal Container Disposal: (For equivalent) You offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill, or by other procedures approved by State and local authorities. Plastic Container Disposal: (For equivalent) Triple wrap with newspaper, place in a sanitary landfill, or incineration, or if allowed by State and local authorities, by burning. If burned, stay out of tank.

Under the Federal Insecticide, Fungicide, and Rodenticide Act  
2724-262

FEB - 5 1988

ACCEPTED  
with COMMENTS  
by EPA Letter Dated: