

pm 25

10182-160

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File  
1 of 14

United States Environmental Protection Agency  
Washington, D.C. 20460

OCT 12 1993

Office of  
Prevention, Pesticides and  
Toxic Substances

Wayne R Hillebrecht  
ZENECA INC  
ZENECA AG PRODUCTS  
NEW MURPHY ROAD & CONCORD PIKE BOX 751  
WILMINGTON DE 19897

Subject: Label Amendment Submission of 06/10/93  
in Compliance with WPS Labeling Requirements  
EPA Reg No. 10182-160  
EPTAM 10-G SELECTIVE HERBICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is accepted subject to the comments listed below.

Based on your certification, the Agency has accepted only those changes to your labeling which are necessary to comply with PR Notices 93-7 and 93-11, which reflect the WPS labeling requirements of 40 CFR part 156, subpart K. Any other labeling changes submitted in connection with this amendment application and not directly related to compliance with PR Notice 93-7 or 93-11 have neither been reviewed nor accepted by the Agency. If you wish to make any such changes, you must submit a separate amendment application proposing them. If your product registration is currently suspended, acceptance of this labeling amendment does not affect the suspension in any way.

A copy of your proposed labeling stamped "Accepted with comments" is attached. Make any required changes described in the attached and send three copies of final labeling as soon as it is available to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (H-7504C)  
U.S. Environmental Protection Agency  
401 M Street SW  
Washington, DC 20460-0001

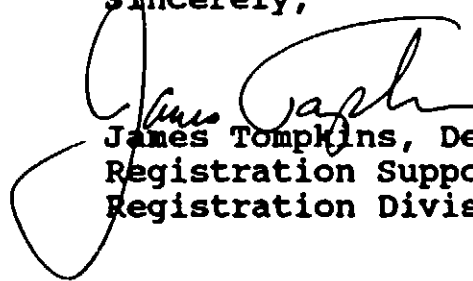
Hand or courier deliveries of final labels may be made to:

Document Processing Desk (FIN-LABEL)  
Room 266A Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Please correct the typographical errors circled on the draft before printing final labeling.

In your final labeling the "Agricultural Use Requirements" text" must be contained in a clearly separate box. This box may be set apart by a line, by another graphical device, by a different color background, or in any other way that clearly distinguishes it from surrounding text.

Sincerely,



James Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (H7505W)

**EPTAM® 10-G**  
Granules - A Selective Herbicide

<b>ACTIVE INGREDIENT:</b>	
S-ethyl dipropylthiocarbamate .....	10.0%
<b>INERT INGREDIENTS:</b> .....	90.0%
<b>Total</b> .....	100.0%

Contains 10 pounds active ingredient per 100 pounds.

EPA Reg. No. 10182-160  
EPA Est. No. 10182-

Net Contents:

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**See Back Panel for Statement of Practical Treatment and Precautionary Statements**

Made in U.S.A.  
ZENECA Ag Products  
ZENECA Inc.  
Wilmington, DE 19897

ACCEPTED  
with COMMENTS  
In EPA Letter Dated  
**OCT 12 1993**  
Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
10182-160

**IMPORTANT**  
**RECALIBRATE YOUR EQUIPMENT FOR THIS PRODUCT BEFORE USING.**

**STATEMENT OF PRACTICAL TREATMENT**

**FIRST AID**

Immediately start the procedures given below. If further treatment is required, contact a Poison Control Center, a physician, or the nearest hospital.

**IF SWALLOWED:** Immediately give several glasses of water and induce vomiting by placing a finger on the back of the victim's tongue. Give fluids until vomitus is clear. If victim is unconscious or convulsing, do not induce vomiting or give anything by mouth.

**IF IN EYES:** Immediately flush eyes with large amounts of running water for at least 15 minutes. Hold eyelids apart during flushing to ensure rinsing of the entire surface of the eye and lids with water. Get medical attention immediately.

**IF ON SKIN:** Flush affected areas with plenty of water for several minutes.

**IF INHALED:** Remove to fresh air. Seek medical attention if respiratory irritation occurs or if breathing becomes difficult.

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**FOR 24-HOUR EMERGENCY MEDICAL ASSISTANCE, CALL 1-800-F-A-S-T-M-E-D (327-8633).**

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure, or accident call CHEMTREC 1-800-424-9300.**

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**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**CAUTION**

**HARMFUL IF SWALLOWED.** Avoid contact with skin, eyes, and clothing. Avoid breathing dust. Wash thoroughly after use. Avoid contamination of feed and food.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

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**User Safety Recommendations**

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
  - Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
  - Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.
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**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 washwaters..

**BEST AVAILABLE COPY**

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

EPTAM® 10-G granules is a selective herbicide which is mixed (incorporated) into the soil for control of weeds listed on this label. EPTAM 10-G controls weeds as their seeds germinate by interfering with normal germination and seedling development. It does not control established weeds.

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### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protection equipment (PPE) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is:

- Coveralls
- Waterproof gloves
- Shoes plus socks

**BEST AVAILABLE COPY**

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### GENERAL USE PRECAUTIONS

READ ALL LABEL DIRECTIONS BEFORE USING.

EPTAM 10-G should be used only for recommended purposes and at recommended rates (DO NOT OVERDOSE). Recalibrate your application equipment for this product before using.

Applied according to directions and under normal growing conditions, EPTAM 10-G will not harm the treated crop. However, during germination and early growth, extended periods of unusually cold and wet or hot and dry weather, insect, nematode, or plant disease attack, carryover pesticide residues, the use of certain soil applied systemic insecticides, highly saline

or alkaline soil conditions, improperly placed fertilizers or soil insecticides may create abnormal conditions that weaken crop seedlings. Used under these abnormal conditions, EPTAM 10-G could result in crop injury.

Use equipment which has proven to incorporate thoroughly to the recommended depth.

Do not contaminate water to be used on susceptible crops or for domestic purposes.

EPTAM 10-G is recommended for use on mineral soils only.

When applied according to directions and under conditions for normal crop growth, no harmful residues should remain beyond harvest.

Do not apply prior to preirrigation.

Keep container closed when not in use. Do not store near seeds or fertilizers.

### **APPLICATION DIRECTIONS**

Apply only to well-worked soil that is dry enough to permit thorough mixing with incorporation equipment. Uniformly apply the recommended rate using equipment designed for application of granular herbicides. Equipment should be carefully calibrated before use and checked frequently during application to be sure it is working properly and delivering a uniform distribution pattern. Avoid overlaps that will increase EPTAM 10-G dosage above recommended rates as plant injury may occur.

### **INCORPORATION DIRECTIONS**

EPTAM 10-G must be incorporated into the soil immediately to prevent loss of the herbicide. Whenever possible, application and incorporation should be done in the same operation.

**Soil Mixing (Incorporation) Before Planting:** Use power-driven cultivation equipment set to cut to a depth of 2 to 3 inches or tandem disc set to cut to a depth of 4 to 6 inches, operated at 4 to 6 mph, followed by a spike-tooth harrow or some other leveling device which extends beyond the ends of the disc. For more thorough mixing (for perennial grasses and in heavier soils) disc in two different directions (cross disc).

**Incorporation At Or After Planting:** Use power-driven cultivation equipment set to cut to a depth of 2 to 3 inches or, on light soils only, ground-driven tillers (rolling cultivators, rotary hoe, row wheels, etc.) set to cut to a depth of 1-1/2 inches and operated at 6 to 8 mph. When using ground-driven tillers, precultivate if soil is crusted. When incorporating after planting, care must be taken not to disturb the crop seed or seedling.

**Irrigation:** EPTAM 10-G can be incorporated with irrigation water. Incorporate immediately using flood or sprinkler irrigation systems. Apply enough water to wet soil to minimum of 3-4" depth.

### **PLANTING DIRECTIONS**

For preplant applications, seeding should be done as soon as possible after treatment to obtain a maximum period of weed control.

## CULTURAL PRACTICES FOLLOWING APPLICATION

EPTAM 10-G is not persistent in the soil and susceptible weeds germinating later during the growing season may not be controlled. Shallow cultivation may be necessary to control these susceptible weeds that escape control by EPTAM 10-G as well as those weeds not susceptible to EPTAM 10-G. Do not cultivate deeper than the depth of the herbicide incorporation.

## WEEDS CONTROLLED

EPTAM 10-G will not control established weeds.

### ANNUAL GRASSES:

Annual Bluegrass	<i>Poa annua</i>
Annual Ryegrass (Italian Ryegrass)	<i>Lolium multiflorum</i>
Barnyardgrass (Watergrass, Junglerice)	<i>Echinochloa</i> spp.
Crabgrass	<i>Digitaria</i> spp.
Field Sandbur	<i>Cenchrus pauciflorus</i>
Giant Foxtail	<i>Setaria faberii</i>
Goosegrass	<i>Eleusine indica</i>
Green Foxtail	<i>Setaria viridis</i>
Johnsongrass Seedlings	<i>Sorghum halepense</i>
Wildcane (Shattercane, Black amercane, Chicken-com, Scattercane)	<i>Sorghum bicolor</i>
Volunteer Grains (Barley, Oats, Wheat)	
Wild Oats	<i>Avena fatua</i>
Yellow Foxtail	<i>Setaria glauca</i>

### ANNUAL BROADLEAF WEEDS:

Black Nightshade	<i>Solanum nigrum</i>
Common Chickweed	<i>Stellaria media</i>
Common Lambsquarters	<i>Chenopodium album</i>
Com Spurry	<i>Spergula arvensis</i>
Deadnettle (Henbit)	<i>Lamium amplexicaule</i>
Florida Pusley	<i>Richardia scabra</i>
Hairy Nightshade	<i>Solanum villosum</i>
Nettleleaf Goosefoot	<i>Chenopodium murale</i>
Purslane, Common	<i>Portulaca oleracea</i>
Prostrate Pigweed	<i>Amaranthus graecizans</i>
Redroot Pigweed (Common Pigweed)	<i>Amaranthus retroflexus</i>
Tumble Pigweed	<i>Amaranthus albus</i>

The annual broadleaf weeds listed above will be controlled only if treatment is made when conditions are favorable for weed germination and growth.



**PERENNIAL WEEDS:**

Bermudagrass	<i>Cynodon dactylon</i>
Purple Nutsedge (Nutgrass)	<i>Cyperus rotundus</i>
Quackgrass (Couchgrass, Witchgrass)	<i>Agropyron repens</i>
Yellow Nutsedge (Nutgrass)	<i>Cyperus esculentus</i>

Perennial weeds must be turned under and chopped up thoroughly prior to treatment. The underground rhizomes of quackgrass and the rhizomes and stolons of bermudagrass must be cut up thoroughly so that four or less nodes remain on a strand. For the control of quackgrass and bermudagrass the disc must be set to cut 6 inches deep and the higher rates of EPTAM 10-G must be used. Consult **RECOMMENDATIONS** for crops on which the higher rates may be used.

**RECOMMENDATIONS**

These recommendations are given as broadcast (overall) rates of EPTAM 10-G per acre. For band treatment, use proportionately less material per acre depending on the width of band to be treated and the crop row spacing. Do not apply EPTAM 10-G on rocky ground because thorough incorporation is not possible.

**IMPORTANT:** The following recommendations are national or regional. National recommendations are for all regions. Regional recommendations are limited to the regions specified. Refer to the regional map below to determine your EPTAM 10-G region.

Insert REGIONAL USE MAP

**ALFALFA, BIRDSFOOT TREFOIL, CLOVER, LESPEDEZA - NEW SEEDINGS**

Temporary crop stunting and sealing of first leaves will occur if conditions for germination and crop growth are not good. Do not use EPTAM 10-G if a grass or grain nurse crop is to be planted with the legume.

**National:**

For control of annual grasses, broadleaf weeds, and nutsedge, apply and incorporate 30 pounds of EPTAM 10-G per acre just before planting.

**Northern, Pacific Northwest, and Western Regions Only:**

Apply 40 pounds EPTAM 10-G per acre for quackgrass suppression and for control of nutsedge, annual broadleaf weeds and annual grasses in medium and fine textured soils.

Do not exceed 30 pounds EPTAM 10-G per acre in coarse textured soils.

**ALFALFA - ESTABLISHED (WESTERN REGION - EXCEPT NEVADA)**

**Forage: Ground or Aerial**

For control of annual weeds and suppression of perennial weeds, apply 20 to 30 pounds EPTAM 10-G per acre to established alfalfa and incorporate with irrigation. Do not exceed 30 pounds per acre EPTAM 10-G in any single application or 120 pounds EPTAM 10-G per acre

per year. Make a maximum of one (1) application per cutting. Do not harvest alfalfa forage within 14 days of application.

**Seed: Ground or Aerial**

For control of annual weeds and suppression of perennial weeds, apply 20 to 30 pounds EPTAM 10-G per acre to established alfalfa and incorporate with irrigation. Do not exceed 30 pounds EPTAM 10-G per acre in any single application or 120 pounds EPTAM 10-G per acre per year. Make a maximum of one (1) application per cutting or per 30-day interval. Do not apply within 14 days of harvest.

Apply EPTAM 10-G to established alfalfa using properly calibrated ground or aerial application equipment. Apply to dry soil free from incidental dew and moisture.

Incorporate immediately after application using flood or sprinkler irrigation systems. Apply enough water to wet the soil to a minimum of 3 to 4 inch depth.

**BEANS, GREEN OR DRY**

Do not use EPTAM 10-G on cowpeas (blackeye peas, blackeye beans), soybeans, adzuki beans, lima beans, or other flat-podded beans except romano. Under abnormal weather conditions, stunting may occur on gratiot, michilite, sanilac and seaway varieties. Do not exceed the 30 pounds per acre rate on small white beans, or on green beans grown on coarse textured soils.

Apply and incorporate EPTAM 10-G just before planting, immediately after planting or at the time of last cultivation. If applied before planting, rotary hoe during or shortly after emergence of the beans to break any crust which occurs. If applied at the time of last cultivation, apply to the soil before bean pods start to form, and do not feed or pasture vines to livestock within 45 days after application.

**National:**

Use 30 pounds EPTAM 10-G per acre for nutsedge, annual grass, and broadleaf weed control.

**Northern and Pacific Northwest Regions Only:**

Use 40 pounds of EPTAM 10-G per acre for quackgrass suppression and for control of seedling johnsongrass, nutsedge, annual broadleaf weeds, and annual grasses in medium and fine textured soils.

**Fall Application (Dry Beans: Minnesota, North Dakota Only):**

Apply and incorporate in the late fall before the ground freezes. Use 40 pounds EPTAM 10-G per acre on coarse textured soils and 45 pounds per acre on medium and fine textured soils.

**CITRUS, NURSERY STOCK AND YOUNG FIELD PLANTINGS (NONBEARING ORANGE AND GRAPEFRUIT GROVES)**

**National:**

After lining out, apply 30 to 60 pounds of EPTAM 10-G per acre to the soil and incorporate with cultivation equipment such as a tree hoe or rotary hoe.

**CONIFER NURSERY STOCK (TWO-YEAR OLD LINING OUT STOCK OF AUSTRIAN PINE, EASTERN HEMLOCK, NORWAY PINE, RED PINE, SCOTCH PINE, WHITE PINE)**

**National:**

Apply and incorporate 30 pounds of EPTAM 10-G per acre just before planting or over well established plants. For control of quackgrass, heavy infestations of nutsedge, and annual broadleaf weeds, apply and incorporate 60 pounds of EPTAM 10-G per acre.

**CORN (FIELD, SILAGE AND SWEET)**

Corn is susceptible to injury from EPTAM 10-G. Do not use on milo or sorghum. Do not use on corn seed stock. Plant corn to a maximum depth of 2 inches.

**Pacific Northwest Region Only:**

**Preplant Incorporation:** Apply and incorporate 20 pounds of EPTAM 10-G per acre just before planting.

**Northern and Southeastern Regions Only:**

**Preemergence Incorporation:** (For use only in areas where johnsongrass seedlings and wildcane are problems. Plant corn. Apply 20 to 30 pounds EPTAM 10-G per acre over the planted crop. Use the higher rate if broadleaf weeds are a problem. Use rotary hoe type equipment to incorporate EPTAM 10-G into the soil to a maximum depth of 1-1/2 inches.

**FLAX**

**National:**

Apply and incorporate 30 pounds EPTAM 10-G per acre just before planting.

**Fall Application (Minnesota, North Dakota):**

Apply and incorporate in the late Fall before the ground freezes. Use 40 pounds EPTAM 10-G per acre on coarse textured soils and 45 pounds per acre on medium and fine textured soils.

**POTATOES, IRISH**

**Preplant:**

**Southeast, Southwest, and Western Regions Only:**

Apply and incorporate 30 pounds EPTAM 10-G per acre.

**Northern and Pacific Northwest Regions Only:**

For annual grasses and broadleaf weeds use 30 to 60 pounds EPTAM 10-G per acre. For quackgrass suppression (or control) and control of nutsedge, annual broadleaf weeds, and annual grasses in fine textured soils, use 40 to 60 pounds per acre.

**OR**

**Drag-Off (Come Up, Weeding Time):**

The field must first be "dragged-off" followed by EPTAM 10-G application and incorporation. Use spike-tooth harrows or cultivation equipment for incorporation.

**National:**

For annual grasses and broadleaf weeds use 30 pounds of EPTAM 10-G per acre.

**Northern and Pacific Northwest Regions Only:**

For control of nutsedge, annual grasses and broadleaf weeds in medium and fine textured soils, use 40 to 60 pounds EPTAM 10-G per acre.

**Layby:**

Apply after a clean cultivation. Apply when vines are dry and use cloth drag to knock granules off plant. Do not apply within 45 days of harvest.

**Southeast, Southwest, and Western Regions Only:**

Apply and incorporate 30 pounds EPTAM 10-G per acre.

**Northern and Pacific Northwest Regions Only:**

Apply to the soil and incorporate 30 to 40 pounds EPTAM 10-G per acre after the potato plants have emerged.

**Fall Application (Minnesota, North Dakota):**

Apply and incorporate in the late fall before the ground freezes. Use 40 pounds EPTAM 10-G per acre on coarse textured soils and 45 pounds per acre on medium and fine textured soils.

**SAFFLOWER**

**National:**

Apply and incorporate 30 pounds EPTAM 10-G per acre just before planting.

**SUGAR BEETS**

**National (Post-Thinning):**

Apply and incorporate 30 pounds of EPTAM 10-G per acre after thinning and clean cultivation and incorporate to a depth of 2 to 3 inches.

**Fall Application (Minnesota, North Dakota):**

Apply and incorporate in the late fall before the ground freezes. Use 40 pounds EPTAM 10-G per acre on coarse textured soils and 45 pounds per acre on medium and fine textured soils.

**TABLE BEETS**

**Pacific Northwest Region Only:**

Apply and incorporate 20 pounds EPTAM 10-G per acre just before planting. (Under normal use table beets are susceptible to injury, and when EPTAM 10-G is used the seeding rate should be increased 10 percent).

**SUNFLOWERS**

**Fall Application (Minnesota, North Dakota):**

Apply and incorporate in the late fall before the ground freezes. Use 40 pounds EPTAM 10-G per acre on coarse textured soils and 45 pounds per acre on medium and fine textured soils.

## STORAGE AND DISPOSAL

**PROHIBITIONS:** Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited.

**STORAGE:** Keep container closed when not in use. Store in a cool, dry place. Do not store near seeds, fertilizers or foodstuffs.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Completely empty bag into application equipment; then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**IMPORTANT:** Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product.

**CONDITIONS OF SALE AND LIMITED WARRANTY:**

The Directions for Use of this product are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as timing and method of application, weather and crop conditions, mixture with other chemicals not specifically recommended or other influencing factors in the use of the product, all of which are beyond the control of the seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the label, subject to the inherent risks referred to above, when used in accordance with directions under normal conditions of use. This warranty does not extend to the use of this product contrary to label instructions, or under abnormal conditions or under conditions not reasonably foreseeable to or beyond the control of Seller and Buyer and User assume the risk of any such use. SELLER DISCLAIMS ALL OTHER WARRANTIES EXPRESSED OR IMPLIED INCLUDING ANY WARRANTY OF FITNESS OR MERCHANTABILITY.

When Buyer or User claims losses or damages resulting from the use or handling of this product (including claims based on contract, negligence, strict liability or other legal theories), Buyer or User must promptly notify in writing Seller of any claims to be eligible to receive either of the remedies set forth below. The EXCLUSIVE REMEDY OF BUYER OR USER and the LIMIT OF LIABILITY of Seller will be, at the election of Seller, refund of the purchase price paid for product bought, or replacement of amount of product used. SELLER SHALL NOT BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT AND SELLER'S SOLE LIABILITY AND BUYER'S AND USER'S EXCLUSIVE REMEDY SHALL BE LIMITED TO THE REFUND OF THE PURCHASE PRICE.

This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified: Country: United States of America.

EPTAM® is a trademark of a ZENECA Group Company.