

EPTAM® 20-G
Granules - A Selective Herbicide

ACTIVE INGREDIENT:		
S-ethyl dipropylthiocarbamate		20.0%
INERT INGREDIENTS:		80.0%
Total		<u>100.0%</u>

Contains 20 pounds active ingredient per 100 pounds.

EPA Reg. No. 10182-199
EPA Est. No. 10182-

Net Contents:

KEEP OUT OF REACH OF CHILDREN

CAUTION

See Back Panel for Statement of Practical Treatment and Precautionary Statements

ACCEPTED

MAR 22 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 10182-199

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

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.

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.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION

HARMFUL IF SWALLOWED. Avoid contact with skin, eyes, and clothing. Avoid breathing dust. Avoid contamination of feed and food.

Personal Protective Equipment

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.

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.

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.

**CONDITIONS OF SALE
AND LIMITATION OF WARRANTY AND LIABILITY**

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product should be followed carefully. 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 manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of ZENECA or Seller. All such risks shall be assumed by Buyer and User, and Buyer and User agree to hold ZENECA and Seller harmless for any claims relating to such factors.

ZENECA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. 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 or ZENECA, and Buyer and User assume the risk of any such use. ZENECA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS STATED ABOVE.

In no event shall ZENECA or Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ZENECA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ZENECA OR SELLER, THE REPLACEMENT OF THE PRODUCT.**

ZENECA and Seller offer this product, and Buyer and User accept it, subject to the foregoing conditions of sale and limitations of warranty and of liability, which may not be modified except by written agreement signed by a duly authorized representative of ZENECA.

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.

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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.

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 protective 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

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.

EPTAM® 20-G granules is a selective herbicide which is mixed (incorporated) into the soil for control of weeds listed on this label. EPTAM 20-G controls weeds as their seeds germinate by interfering with normal germination and seedling development. It does not control established weeds.

GENERAL USE PRECAUTIONS

READ ALL LABEL DIRECTIONS BEFORE USING.

EPTAM 20-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 20-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 20-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 20-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 20-G dosage above recommended rates as plant injury may occur.

INCORPORATION DIRECTIONS

EPTAM 20-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 20-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 20-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 20-G as well as those weeds not susceptible to EPTAM 20-G. Do not cultivate deeper than the depth of the herbicide incorporation.

WEEDS CONTROLLED

EPTAM 20-G will not control established weeds

ANNUAL GRASSES

Annual Bluegrass
Annual Ryegrass
(Italian Ryegrass)
Barnyardgrass (Watergrass
Junglence)
Crabgrass
Field Sandbur
Giant Foxtail
Goosegrass
Green Foxtail
Johnsongrass Seedlings
Wildcane (Shattercane Black amercane
Chicken-corn Scattercane)
Volunteer Grains
(Barley Oats Wheat)
Wild Oats
Yellow Foxtail

Poa annua
Lolium multiflorum
Echinochloa spp
Digitaria spp
Cenchrus pauciflorus
Setaria faberii
Eleusine indica
Setaria viridis
Sorghum halepense

Sorghum bicolor

Avena fatua
Setaria glauca

ANNUAL BROADLEAF WEEDS

Black Nightshade
Common Chickweed
Common Lambsquarters
Corn Spurry
Deadnettle (Henbit)
Florida Pusley
Hairy Nightshade
Nettleleaf Goosefoot
Purslane Common
Prostrate Pigweed
Redroot Pigweed
(Common Pigweed)
Tumble Pigweed

Solanum nigrum
Stellaria media
Chenopodium album
Spergula arvensis
Lamium amplexicaule
Richardia scabra
Solanum villosum
Chenopodium murale
Portulaca oleracea
Amaranthus graecizans

Amaranthus retroflexus
Amaranthus albus

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
Purple Nutsedge (Nutgrass)
Quackgrass (Couchgrass Witchgrass)
Yellow Nutsedge (Nutgrass)

Cynodon dactylon
Cyperus rotundus
Agropyron repens
Cyperus esculentus

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 20-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 20-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 20-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 20-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 20-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 15 pounds of EPTAM 20-G per acre just before planting

Northern, Pacific Northwest, and Western Regions Only

Apply 20 pounds EPTAM 20-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 15 pounds EPTAM 20-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 10 to 15 pounds EPTAM 20-G per acre to established alfalfa and incorporate with irrigation Do not exceed 15 pounds per acre EPTAM 20 G in any single application or 60 pounds EPTAM 20-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 10 to 15 pounds EPTAM 20-G per acre to established alfalfa and incorporate with irrigation Do not exceed 15 pounds EPTAM 20 G per acre in any single application or 60 pounds EPTAM 20-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 20-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 20-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 15 pounds per acre rate on small white beans, or on green beans grown on coarse textured soils.

Apply and incorporate EPTAM 20-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 15 pounds EPTAM 20-G per acre for nutsedge, annual grass, and broadleaf weed control.

Northern and Pacific Northwest Regions Only:

Use 20 pounds of EPTAM 20-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 20 pounds EPTAM 20-G per acre on coarse textured soils and 22½ 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 15 to 30 pounds of EPTAM 20-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 15 pounds of EPTAM 20-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 30 pounds of EPTAM 20-G per acre.

CORN (FIELD, SILAGE AND SWEET)

Com is susceptible to injury from EPTAM 20-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 10 pounds of EPTAM 20-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 10 to 15 pounds EPTAM 20-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 20-G into the soil to a maximum depth of 1-1/2 inches.

FLAX

National:

~~Apply and incorporate 30 pounds EPTAM 20-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 20-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 15 pounds EPTAM 20-G per acre.

Northern and Pacific Northwest Regions Only:

For annual grasses and broadleaf weeds use 15 to 30 pounds EPTAM 20-G per acre. For quackgrass suppression (or control) and control of nutsedge, annual broadleaf weeds, and annual grasses in fine textured soils, use 20 to 30 pounds per acre.

OR

Drag-Off (Come Up, Weeding Time):

The field must first be "dragged-off" followed by EPTAM 20-G application and incorporation. Use spike-tooth harrows or cultivation equipment for incorporation.

National:

For annual grasses and broadleaf weeds use 15 pounds of EPTAM 20-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 20 to 30 pounds EPTAM 20-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 15 pounds EPTAM 20-G per acre.

Northern and Pacific Northwest Regions Only:
Apply to the soil and incorporate 15 to 20 pounds EPTAM 20-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 20 pounds EPTAM 20-G per acre on coarse textured soils and 22½ pounds per acre on medium and fine textured soils.

SAFFLOWER

National:
Apply and incorporate 15 pounds EPTAM 20-G per acre just before planting.

SUGAR BEETS

National (Post-Thinning):
Apply and incorporate 15 pounds of EPTAM 20-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 20 pounds EPTAM 20-G per acre on coarse textured soils and 22½ pounds per acre on medium and fine textured soils.

~~TABLE BEETS~~

~~Pacific Northwest Region Only:~~

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

SUNFLOWERS

Spring Application (Colorado, Kansas, Minnesota, Nebraska, North Dakota, South Dakota):
Apply and incorporate 10 to 15 pounds EPTAM 20-G per acre just before planting. Use the lowest rate on lighter soil.

OR

Fall Application (Minnesota, North Dakota):

Apply and incorporate in the late fall before the ground freezes. Use 20 pounds EPTAM 20-G per acre on coarse textured soils and 22½ pounds per acre on medium and fine textured soils.

EPTAM® is a trademark of a ZENECA Group Company.