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GROUPE	8	HERBICIDE
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EPTAM® 5-G GRANULAR HERBICIDE

COMMERCIAL

Selective Herbicide For Use in Mineral Soils

GUARANTEE: EPTC 5%

READ THE LABEL BEFORE USING

REGISTRATION NO. **7062** PEST CONTROL PRODUCTS ACT

Net Contents: 10 - 50 Kg

Registrant: Gowan Company LLC.
370 South Main Street
Yuma, AZ 85364

Contact in Canada: Melissa McQueen, Gowan Agro Canada Ltd.
Address: P.O. Box 248, Station T, Calgary AB Canada T2H 2GH
Phone: (403) 680-0994

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the ***Pest Control Products Act*** to use this product in a way that is inconsistent with the directions on the label. The user assumes the risk to persons or property that arises from any such use of this product.

FIRST AID

IF POISONING IS SUSPECTED, immediately contact a physician or a poison control center.

If swallowed: Call a poison control centre or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control centre or doctor. Do not give anything by mouth to an unconscious person.

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15–20 minutes. Call a poison control centre or doctor for treatment advice.

If inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control centre or doctor for further treatment advice.

If in eyes: Hold eye open and rinse slowly and gently with water for 15–20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control centre or doctor for treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION: Treat symptomatically.

PRECAUTIONS

KEEP OUT OF REACH OF CHILDREN - HARMFUL IF SWALLOWED

Avoid contact with skin, eyes and clothing. Avoid breathing dust. Wash skin thoroughly with soap and water after use. Avoid contamination of seeds, fertilizers, food and feed. Do not contaminate irrigation water or water used for domestic purposes. Keep container closed when not in use.

If this pest control product is to be used on a commodity that may be exported to the U.S. and you require information on acceptable residue levels in the U.S., visit CropLife Canada's website at www.croplife.ca.

PERSONAL PROTECTIVE EQUIPMENT

MIXERS, LOADERS AND APPLICATORS

Wear long-sleeved shirt and long pants, chemical-resistant gloves, socks, chemical-resistant footwear and respirator during mixing, loading, application, clean-up and repair. The respirator must be equipped with a NIOSH/MSHA/BHSE-approved organic-vapour-removing cartridge with a prefilter approved for pesticides OR a NIOSH/MSHA/BHSE-approved canister approved for pesticides.

ENVIRONMENTAL HAZARDS

TOXIC to wild mammals. Toxic to aquatic organisms and terrestrial plants.

Observe buffer zones specified under DIRECTIONS FOR USE.

To reduce runoff from treated areas into aquatic habitats, consider the characteristics and conditions of the site before treatment. Site characteristics and conditions that may lead to runoff include, but are not limited to, heavy rainfall, moderate to steep slope, bare soil, poorly draining soil (e.g. soils that are compacted or fine textured such as clay).

Avoid application of this product when heavy rain is forecast.

Contamination of aquatic areas as a result of runoff may be reduced by including a vegetative strip between the treated area and the edge of the water body.

STORAGE

Store in a cool, dry, well-ventilated area away from flammable materials, sources of heat and flame, and foodstuffs. This product is not affected by freezing.

SPILL CLEANUP

Wear appropriate protective equipment (gloves, glasses, apron) when attempting to clean up the spill. If the container is leaking, secure leak and place the container into a drum or heavy gauge plastic bag. Contact Gowan Company (See EMERGENCY NUMBER) for further information.

For spills and leaks; clean up as much of the product as possible with a broom and shovel. If available, use an absorbent such as DUSTBANE to clean the spill area. Shovel the spilled product and spend absorbent in a sealable waste container.

On hard surfaces - sprinkle spill area with detergent and scrub in a small quantity of water with a coarse broom. Let stand for 10 minutes then absorb onto an inert material and shovel waste into a waste container.

On soil - remove the top 15 cm of soil in the spill area and replace with fresh soil.

Dispose of all waste including scrub brush in accordance with provincial requirements.

For more information on the disposal of waste and the clean up of spills, contact the provincial regulatory agency or the manufacturer.

DECONTAMINATION AND DISPOSAL: For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills

CONTAINER DISPOSAL:

1. Empty bag thoroughly into spray tank.
2. Make the empty bag unsuitable for further use.
3. Dispose of the bag in accordance with provincial requirements.
4. For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT, CALL PROSAR AT 1-888-478-0798.

PRODUCT INFORMATION:

EPTAM 5-G GRANULAR HERBICIDE is a selective herbicide which is mixed (incorporated) in the soil for control of weeds listed on this label. EPTAM 5-G GRANULAR HERBICIDE controls weeds by interfering with normal germination and seedling development. It does not control established weeds. All weed growth and crop stubble should be thoroughly worked into the soil before treatment.

DIRECTIONS FOR USE

READ ALL OF THE LABEL BEFORE USING.

DO NOT APPLY BY AIR.

Make only two applications per year.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 24 hours.

Field sprayer application: DO NOT apply during periods of dead calm. Avoid application of this product when winds are gusty. DO NOT apply with spray droplets smaller than the American Society of Agricultural Engineers (ASAE) medium classification. Boom height must be 60 cm. or less above the crop or ground.

BUFFER ZONES:

Use of the following spray methods or equipment DO NOT require a buffer zone; hand-held or backpack sprayer, inter-row hooded sprayer, spot treatment, soil drench, and soil incorporation.

The buffer zones specified in the table below are required between the point of direct application and the closest downwind edge of sensitive terrestrial habitats (such as grasslands, forested areas, shelter belts, woodlots, hedgerows, rangelands, riparian areas and shrub lands), sensitive freshwater habitats (such as lakes, rivers, sloughs, ponds, prairie potholes, creeks, marshes, streams, reservoirs and wetlands) and estuarine or marine habitats.

Method of application	Crop	Buffer Zones (metres) Required for the Protection of:		
		Aquatic Habitat of Depths:		Terrestrial habitat
		Less than 1 m	Greater than 1 m	
Field sprayer*	Potatoes	1	1	4

*For field sprayer application, buffer zones can be reduced with the use of drift reducing spray shields. When using a spray boom fitted with a full shield (shroud, curtain) that extends to the crop canopy, the labeled buffer zone can be reduced by 70%. When using a spray boom where the individual nozzles are fitted with cone-shaped shields that are no more than 30 cm above the crop canopy, the labeled buffer zone can be reduced by 30%.

When a tank mixture is used, consult the labels of the tank-mix partners and observe the largest (most restrictive) buffer zone of the products involved in the tank mixture.

EPTAM 5-G GRANULAR HERBICIDE is recommended for use on mineral soils only.

EPTAM 5-G GRANULAR HERBICIDE should be used only for recommended purposes and at recommended rates. (DO NOT OVERDOSE.)

Applied according to directions and under normal growing conditions, EPTAM 5-G GRANULAR HERBICIDE will not harm the treated crop. However, during germination and early stages of growth, unusually cold and wet or hot and dry weather, insect, nematode, or plant disease attack, 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. EPTAM5-G used under these abnormal conditions could result in crop injury.

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

Do not apply prior to pre-irrigation.

Do not graze the treated crops or cut for hay in the season of application; there are not sufficient data available to support such use.

WEEDS CONTROLLED

EPTAM 5-G GRANULAR HERBICIDE will not control established weeds.

ANNUAL GRASSES

Annual Blue Grass

Rye Grass (Annual, Italian)

Barnyard Grass (Water Grass)

Foxtails (Green, Yellow)

Crab Grass

Goose Grass

Volunteer Grains (Barley, Oats, Wheat)

Wild Oats

ANNUAL BROADLEAF WEEDS

Common Chickweed
Corn Spurry
Deadnettle (Henbit)
Lamb's-quarters
Nettleleaf Goosefoot
Nightshade, Hairy*
Pigweed (Redroot, Prostrate, Tumble)
Purslane

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

* Western Canada only

PERENNIAL WEEDS

Quack grass (Couch Grass, Twitch Grass)
Yellow Nutsedge (Nut Grass)

Perennial weeds must be turned under and chopped up thoroughly prior to treatment. The underground rhizomes of quack grass must be cut up thoroughly so that four or less nodes remain on a strand. For the control of quack grass the disc must be set to cut 15 centimetres deep and the higher rates of EPTAM 5-G GRANULAR HERBICIDE must be used. Consult recommendations for crops on which these higher rates may be used.

APPLICATION DIRECTIONS

Apply the recommended amount of EPTAM 5-G GRANULAR HERBICIDE using equipment designed specifically for application of granular herbicides in the soil. The soil should be well worked and dry enough to permit good soil mixing (incorporation).

APPLICATION RATES

These recommendations are given as broadcast (overall) rates of EPTAM 5-G GRANULAR HERBICIDE per hectare. For band treatment, use proportionately less material per hectare depending upon the width of the band to be treated and the crop row spacing. Do not use band treatment on rocky ground because thorough incorporation is not possible.

Alfalfa and Birdsfoot Trefoil (New seedlings) - Before planting, apply and incorporate 68 kilograms EPTAM 5-G GRANULAR HERBICIDE per hectare. Temporary crop stunting and sealing of first leaves will occur in legumes if conditions for germination and growth are not optimum. Do not use EPTAM 5-G GRANULAR HERBICIDE if a grass or grain nurse crop is to be planted with the legume.

Beans, Snap or Dry (Including red kidney beans) - Before planting, apply and incorporate 68 to 90 kilograms EPTAM 5-G GRANULAR HERBICIDE per hectare. For dense stands of quack grass and nut grass, apply 90 kilograms per hectare. If dry weather prevails at time of treatment, delay seeding of beans seven to ten days. Do not use EPTAM 5-G GRANULAR HERBICIDE on adzuki (Japanese) beans or on cowpeas (blackeyed peas, blackeyed beans), soybeans, lima beans or other flat-podded beans except Romano.
Rotary hoe lightly during or shortly after emergence of the beans to break any crust which occurs.

NOTE: Under extreme weather conditions, such as cold temperatures and wet soils or high temperature and dry soils, stunting may occur.

Potatoes, Irish: Before planting - Apply and incorporate 68 to 135 kilograms EPTAM 5-G GRANULAR HERBICIDE per hectare. For control of dense stands of nut grass and quack grass use 90 to 135 kilograms per hectare.

OR

Drag-off (come-up, weeding time) - Apply and incorporate 68 to 135 kilograms EPTAM 5-G GRANULAR HERBICIDE per hectare. The field must first be "DRAGGED-OFF" followed by EPTAM 5-G GRANULAR HERBICIDE application and incorporation. Use spike tooth harrow or cultivation equipment for incorporation.

OR

Post-emergence - Apply 68 to 90 kilograms EPTAM 5-G GRANULAR HERBICIDE per hectare at next to the last or at time of last cultivation. If soil surface is not dry and loose, cultivate before application. Do not apply within 45 days of harvest.

Sunflower: Before planting - Apply and incorporate 68 kilograms EPTAM 5-G GRANULAR HERBICIDE per hectare.

Turnips (Rutabagas) - Do not use in Eastern Canada: Six to ten days before planting, apply and incorporate 45 kilograms per hectare on light sandy soils or 68 kilograms on medium to heavy textured soils. If dry weather prevails at time of treatment, do not use EPTAM 5-G GRANULAR HERBICIDE on sand and use the lower rate on the medium and heavy textured soils.

INCORPORATION DIRECTIONS

EPTAM 5-G GRANULAR HERBICIDE 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. The following equipment is commonly used for soil mixing (incorporation) before planting:

TYPE OF EQUIPMENT	WORKING DEPTH*	MINIMUM SPEED
S Tyne (Danish) Cultivator **	10-15 cm	8-13 km/hr
C Tyne Cultivator with overlapping sweeps **	10-15 cm	9.5+ km/hr
Tandem Disks (max 45cm spacing between disks)***	10-15 cm	6.5-9.5 km/hr
Power Driven Cultivator****	5-7.5 cm	ANY

* Shallow incorporation with implements set to cut less than 5.0 centimetres may result in erratic weed control.

** Recommended for lighter soils in good tilth only

*** For more thorough mixing, (perennial weeds and in heavier soils) cross disk a second time at maximum 10 cm depth.

**** For control of shallow, annual weeds only.

CULTURAL PRACTICES FOLLOWING APPLICATION

To obtain a maximum period of weed control, seeding should be done as soon as possible after application.

Since EPTAM 5-G GRANULAR HERBICIDE is not persistent in the soil, susceptible weeds germinating later during the growing season may not be controlled. Shallow cultivation or the use of post emergent herbicides may be required to control weeds that escape EPTAM 5-G GRANULAR HERBICIDE treatment or are not controlled by EPTAM 5-G GRANULAR HERBICIDE (i.e. tolerant broadleaves and non susceptible weed species). Cultivation should not exceed the depth of herbicide incorporation.

RESISTANCE-MANAGEMENT RECOMMENDATIONS

For resistance management, EPTAM® 5-G GRANULAR HERBICIDE is a Group 8 herbicide. Any weed population may contain or develop plants naturally resistant to EPTAM® 5-G GRANULAR HERBICIDE and other Group 8 herbicides. The resistant biotypes may dominate the weed population if these herbicides are used repeatedly in the same field.

Other resistance mechanisms that are not linked to site of action, but specific for individual chemicals, such as enhanced metabolism, may also exist. Appropriate resistance-management strategies should be followed.

To delay herbicide resistance:

Where possible, rotate the use of EPTAM® 5-G GRANULAR HERBICIDE or other Group 8 herbicides with different herbicide groups that control the same weeds in a field.

Use tank mixtures with herbicides from a different group when such use is permitted.

Herbicide use should be based on an IPM program that includes scouting, historical information related to herbicide use and crop rotation, and considers tillage (or other mechanical), cultural, biological and other chemical control practices.

Monitor treated weed populations for resistance development. Prevent movement of resistant weed seeds to other fields by cleaning harvesting and tillage equipment and planting clean seed.

Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or integrated weed-management recommendations for specific crops and weed biotypes.

For further information or to report suspected resistance, contact Gowan Company representatives at 1-800-883-1844 or at www.gowanco.com

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