

PM-19

Reg # 33658-5

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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

33658-5

Date of Issuance

FEB 27 1997

## NOTICE OF PESTICIDE:

☒ Registration  
☐ Reregistration

(under FIFRA as amended)

Term of Issuance Until  
Reregistration

Name of Pesticide Product

Gharda  
Chlorpyrifos 15G

Name and Address of Registrant (include ZIP Code)

Gharda Chemicals Limited  
48, Hill Road  
Bandra (West)  
Bombay 400 050  
India

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above 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 sec. 3(c)(7)(A) provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA sec. 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. Change the label by revising the EPA Registration Number to read, "EPA Reg. No. 33658-5."

3. Generate storage stability data as required by 40 CFR Part 158. The data must be maintained for submission to the Agency upon request.

Signature of Approving Official

/s/

Dennis H. Edwards, Jr.  
Product Manager (19)  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

Date

FEB 27 1997

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4. Submit two copies 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 sec. 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.

Sincerely yours,

/s/

Dennis H. Edwards, Jr.  
Product Manager (19)  
Insecticide-Rodenticide Branch  
Registration Division (7505C)

FEB 27 1997

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
33658-5

**GHARDA  
CHLORPYRIFOS 15G  
GRANULAR INSECTICIDE**

For control of various insects infesting certain field  
and vegetable crops

**Active Ingredient**

Chlorpyrifos O O diethyl

(3 5 6 trichloro 2 pyrid nyl)

sphorothoate

15.3%

Inert Ingredients

84.7%

Total

100.0%

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION PRECAUTION**

Si usted no entiende la etiqueta busque a alguien para que se la  
explique a usted en detalle. (If you do not understand the label find  
someone to explain it to you in detail.)

**STATEMENT OF PRACTICAL TREATMENT**

**Organophosphate**

If swallowed Call a physician or Poison Control Center. Drink 1 or  
2 glasses of water and induce vomiting by touching back of throat  
with finger. Do not induce vomiting or give anything by mouth to an  
unconscious person.

If in eyes Flush with plenty of water for 5 minutes. Get medical  
attention on irritation persists.

If on skin Wash with plenty of soap and water. Get medical  
attention if irritation persists.

**Note to Physicians:** Chlorpyrifos is a cholinesterase inhibitor. Treat  
symptomatically. If exposed plasma and red blood cell  
cholinesterase tests may indicate significance of exposure (baseline  
data are useful). Atropine only by injection is the preferable  
antidote. Oximes such as 2 PAM/protopam may be therapeutic if  
used early however use only in conjunction with atropine. In case  
of severe acute poisoning use antidote immediately after establishing  
an open airway and respiration.

See side panel for additional precautionary statements

MFG BY  
EPA Establishment No  
EPA Registration No  
Net Contents

Gharda Chemicals Ltd  
33658 IND 001  
33658 (To be assigned)

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC  
ANIMALS  
CAUTION**

Harmful if swallowed. Causes eye irritation. Avoid contact with  
eyes, skin or clothing. Avoid breathing dust.

**Personal Protective Equipment**

Applicators and other handlers must wear

- Long sleeved shirt and long pants
- Shoes plus socks

Follow manufacturer's instructions for cleaning and maintaining  
Personal Protective Equipment (PPE). If no such instructions for  
washables use detergent and hot water. Keep and wash PPE  
separately from other laundry.

**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.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to birds and wildlife and extremely toxic to  
fish and aquatic organisms. Do not apply directly to water or to  
areas where surface water is present or to intertidal areas below the  
mean high water mark. Drift and runoff from treated areas may be  
hazardous to aquatic organisms in adjacent aquatic sites. Cover or  
incorporate spills. Do not contaminate water when disposing of  
equipment washwaters.

**DIRECTIONS FOR USE**

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

Read all Directions for Use before applying.

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
- Shoes plus socks
- Waterproof gloves

**BEST AVAILABLE COPY**

## STORAGE AND DISPOSAL

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

**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.

## APPROVED USES

Corn Field: Popcorn, Sweet Corn (including corn grown for seed)\*

Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces per 1 000 Feet of Row)				Preplant Broadcast Appl cation (lb Acre)	Aerial Broadcast Appl cation (lb/Acre)
	At Plant Treatments			Postplant Treatment		
	T Band	Band	In Furrow			
northern and western corn rootworm larvae	8	8	8	8		
southern corn rootworm larvae	8	8	8	8		
cutworms**	8	8	8		6.75 to 13.5	
wireworms***	8	8	8		13.5	
Billbugs	8	8			13.5	
seed corn maggots	8		8			
grubs****	8		8		13.5	
lesser cornstalk borer	8	8				
seed corn beetle	8		8			
flea beetle larvae					13.5	
symphylans	8	8				
armyworms				6 to 8		
European and southwestern corn borer 1st Generation 2nd Generation				3.5 to 8 6 to 8		5.0 to 6.5 6.5
fire ants**	8					
chinch bug**	8		8			

\* Gharda 15G insecticide is compatible with all ALS inhibitory herbicides including Accent, Beacon and Broadstrike herbicides applied in accordance with label recommendations. Refer to the product labels for additional precautions and directions for use.

\*\* 8 oz rate suppression only for in furrow treatments.

\*\*\* For best control, apply as an in furrow treatment. Consider using a hopper box insecticidal seed treatment with band and T band applications. Use 12 oz/1,000 ft of row for severe infestations.

\*\*\*\* Use 12 oz/1,000 ft of row for severe infestations.

**At Plant Band Treatment:** In conventional minimum and no till corn, place the granules in a 6 or 7 inch wide band over the row behind the planter shoe in front of the press wheel and incorporate into the top one inch of soil using tines or chains or other suitable equipment. For cutworm control under very dry soil conditions, best results will be obtained through proper incorporation. In soils over 10% organic matter, use the highest rate given.

**At Plant T Band Treatment:** In conventional minimum and no till corn for control of rootworm, cutworm, and billbug, in addition to lesser cornstalk borer, symphylans, wireworms, seed corn beetle, seed corn maggot, and grubs, apply as a T band over an open seed furrow. In conventional and minimum till corn, incorporate into the top 1/2 to 1 inch of soil using suitable equipment. For severe wireworm and grub infestations, use 12 oz/1,000 ft of row. Gharda

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15G has demonstrated suppression of certain soil borne pathogens which may result in physiological and agronomic advantages to corn under environmental stress conditions when compared to corn not treated with Gharda 15G

**At Plant In Furrow Treatment** Apply Gharda 15G at planting time as an in furrow treatment in conventional minimum and no till corn. Direct the granules into the planter shoe with the seed or place the applicator tube directly behind the planter shoe so that the granules drop into the seed furrow or place the granular band applicator behind the planter shoe so that the granules fall on the soil surface and into the open seed furrow and are covered with soil. Equivalent rates of Gharda 15G per acre for various row spacings are given in the accompanying tables

**Postplant Treatment** To control corn rootworm larvae apply Gharda 15G at cultivation time by placing the granules at the base of the plant on both sides of the row just ahead of the cultivation shovels and cover the soil. To control European and southwestern corn borer larvae apply Gharda 15G in a band over the row so that the granules are directed into the whorl or use a post plant broadcast treatment. Use application rates of 3.5 to 4 oz of Gharda 15G per 1,000 feet of row for low to moderate first generation infestations before larvae have entered corn stalks. Use application rates of 6 to 8 oz of Gharda 15G per 1,000 feet of row for severe first generation infestations and all second generation infestations before larvae have entered corn stalks. Consult your state agricultural experiment station or extension service specialist for proper time to treat and local threshold information. Scouting for insect damage is strongly encouraged.

**Postplant Broadcast Treatment** Use Gharda 15G for control of European and southwestern corn borers by uniformly broadcasting the granules over the corn plants by aerial application or by applying the granules into the corn whorls by ground application. Apply at a rate of 5.0 lb per acre for low to moderate first generation infestations or at 6.5 lb per acre for severe first generation infestations and all second generation infestations. Apply before larvae have entered corn stalks. Consult your state agricultural experiment station or extension service specialist for local threshold information. Scouting for insect damage is strongly encouraged.

**Preplant Broadcast Treatment** Use equipment that will evenly distribute the granules over the treated area. Incorporate the granules into the soil using an S tine, C tine, disc cultivator or other suitable incorporation equipment set to cut to a depth of 4 to 6 inches. Plant the crop in the usual manner as soon as possible after treatment.

**Restrictions** For soil control do not exceed the equivalent of 16 ounces of Gharda 15G per 1,000 feet row or 13.5 pounds of Gharda 15G per acre applied as a broadcast application per crop season. For foliar insect control do not exceed the equivalent of 16 ounces of Gharda 15G per 1,000 feet row or 13 pounds of Gharda 15G per acre per crop season. Do not apply within 35 days before harvest of grain. Do not allow livestock to graze in treated areas nor harvest treated corn silage as feed for meat or dairy animals within 14 days after last treatment. Do not feed treated corn fodder to meat or dairy animals within 35 days after last treatment.

**Onions (Dry Bulb)**

**Pest Controlled** onion maggot

**Application Rate** 3.7 ounces per 1,000 feet or row at an 18 inch row spacing

**At Plant In Furrow Treatment** Apply as an at planting in furrow treatment. In Colorado, Idaho, Washington and Oregon to control onion maggots in onions planted in double rows with rows spaced 2 to 4 inches apart apply Gharda 15G at the rate of 3.7 oz per 1,000

feet of double row. Place the granules in a 5 to 7 inch wide band over both rows behind the planter shoe and in front of the press wheel to achieve shallow incorporation. Do not exceed 6.7 lb per acre.

**Restrictions** Do not make more than one application per year.

**Citrus Grove Floors**

**Pests Controlled** fire ants and other ant species

**Application Rate** 6.7 lb/acre

**Postplant Broadcast Treatment** To control foraging ants and suppress mounds apply Gharda 15G with ground application equipment. Use a suitable granular applicator such as a cyclone fertilizer spreader that will uniformly broadcast the granules over the grove floor. Retreat as needed. Gharda 15G may be custom blended with granular fertilizers provided that application of the blended Gharda 15G plus fertilizer mixture can be applied uniformly to the grove floor. Do not apply where weed growth or other obstructions would impede uniform coverage of the grove floor.

**Restrictions** Do not apply more than 67 pounds of Gharda 15G per acre per crop season. Do not apply last treatment within 28 days before harvest. Do not allow livestock to graze in treated areas.

**Sorghum/Milo**

**Application Rates and Pests Controlled**

Pests Controlled	Banded Applications (Ounces per 1,000 Feet of Row)	
	At Plant Treatments	
	T Band	Band
lesser cornstalk borer	4 to 12	4 to 12
corn rootworm and cutworms	8	8
fire ants*	8	
chinch bug*	8	

\*Baz rate suppression only

**At Plant T Band or Band Treatments** Apply in a 6 to 8 inch band over the row and incorporate into the top 1 inch of soil using suitable equipment. Equivalent rates of Gharda 15G per acre for various row spacings are given in Table 1. Use the lowest rate for lesser cornstalk borer control when protection is desired for 2 to 3 weeks and higher rates for longer residual activity. It is absolutely necessary to incorporate the granules especially at lower rates.

**Restrictions** Do not make more than one application per season.

**Peanuts**

Use Gharda 15G to control cutworms, lesser cornstalk borer, southern corn rootworm larvae, suppress wireworms and inhibit the growth and development of white mold (southern blight) disease caused by *Sclerotium rolfsii*. Gharda 15G will control only those cutworms existing in the soil from the time of application up to 30 days following application.

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Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces/1 000 Feet of Row)		Aerial Broadcast (lb/Acre)
	At Plant Treatment	Postplant Treatment	
*Preventative Treatments cutworms lesser cornstalk borer southern corn rootworm larvae wireworms white mold (southern blight)	7.5 to 15	7.5 to 15	
**Rescue Treatments lesser cornstalk borer		7.5 to 15	10 to 13
Burrowing bug			13.3

**\*At Plant Preventive Treatment** Apply Gharda 15G in a 6 to 12 inch band over the row behind the planter shoe and in front of the press wheel. Incorporate granules to a depth of 1 inch with tines or chains or other suitable equipment. If the 7.5 oz rate is used at planting time, then another application of 7.5 oz per 1 000 feet of row should be made postplant to extend control.

**\*Postplant Preventative Treatment** Apply Gharda 15G to peanuts at early flowering to pegging stage of growth in a 6 to 8 inch band over the row. For extended insect control and continued suppression of white mold (southern blight) a second application of Gharda 15G may be made. Best suppression of white mold (southern blight) is obtained by applying the maximum rate of 15 oz per 1 000 ft of row for each postplant treatment. Irrigation or rain following application is needed to enhance treatment effectiveness for suppression of white mold. Under conditions of heavy white mold pressure a suitable fungicide may also be required and must be applied separately.

**\*\*Band Rescue Treatment** Use Gharda 15G for the control of lesser cornstalk borer when the insect first appears usually just prior to or at pegging. Apply in a 10 to 18 inch band over the fruiting zone.

**\*\*Broadcast Rescue Treatment** Use Gharda 15G for the control of lesser cornstalk borer when the insect first appears usually just prior to or at pegging. Uniformly apply at a rate of 10 to 13 pounds per acre by aerial broadcast application. For control of burrowing bugs use Gharda 15G when adults first appear, usually at mid to late pegging. Uniformly apply at a rate of 13.3 pounds per acre by aerial broadcast application. Care must be taken to ensure proper equipment calibration and delivery.

**Restrictions** Do not apply more than 15 ounces of Gharda 15G per application per 1 000 feet of row or 13.3 pounds of Gharda 15G per acre per application. Do not apply more than 30 oz per 1 000 ft of row or 26.6 pounds per acre per crop season. Do not harvest within 21 days after treatment. Do not feed peanut forage or hay to meat or dairy animals. The combined total of preplant and postplant applications of Gharda 4E and Gharda 15G must not exceed 4 pounds of active ingredient per acre per crop season.

## Soybeans

Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces per 1 000 Feet of Row)		
	At Plant Treatments		Postplant Treatment
	T Band	Band	
lesser cornstalk borer cutworms	8	8	8

**At Plant and Postplant Treatments** Use Gharda 15G insecticide to control larvae of the lesser cornstalk borer and cutworms by application at planting time or postemergence as a band (row) treatment at the rate of 8 oz per 1 000 feet of row. In the southeast apply 4 to 8 oz per 1 000 feet of row as an at plant treatment. Equivalent rates of Gharda 15G per acre for various row spacing are given in the accompanying table. When applied at planting time incorporate the granules into the top 1 inch of soil by placing in a 4 to 10 inch band over the row behind the planter shoe and ahead of the press wheel. A drag chain can also be used for incorporation. For postemergence treatment when insects first appear incorporate the granules in a 4 to 10 inch band to a depth of 1/2 to 1 inch using a suitable cultivator. Apply Gharda 15G with equipment that will provide uniform distribution of the granules. Do not apply as an in-furrow treatment. For suppression of fire ants use Gharda 15G at 8 oz per 1 000 feet of row as an at plant T band treatment.

**Restrictions** Do not make more than one application per season.

## Sugar Beets

Granular insecticides including Gharda 15G may contribute to the stress of the sugar beet plant under certain environmental conditions. This stress may reduce plant stand or interfere with normal plant development. Herbicides used preplant incorporated may interact with insecticides and enhance this stress.

Application Rates and Pests Controlled

Pests Controlled	Banded Applications (Ounces per 1 000 Feet of Row)		
	At Plant Treatments		Postplant Treatment
	T Band	Band	
sugar beet root maggot		4.5 to 9.0	6.5 to 9.0
cutworms		6.6 to 9.0	
wireworms (suppression)		6.5 to 9.0	

**At Plant Band Treatment** To control sugar beet root maggot larvae and cutworms at planting time place Gharda 15G in a band 4 to 5 inches wide behind the planter shoe over the drill row and in front of the press wheel. Do not apply granules in direct contact with seeds. Apply Gharda 15G at the rate of 4.5 to 9 ounces per 1 000 feet of row (equivalent to 6.75 to 13.5 lb per acre based on a 22 inch row spacing). When root maggot populations are expected to be low apply Gharda 15G at a rate of 4.5 ounces per 1 000 feet of row (equivalent to 6.75 lb per acre based on 22 inch row spacing). If initial adult fly activity indicates higher than anticipated populations apply Gharda 4E at or near the time of peak adult

emergence to augment control (Review label for Gharda 4E for recommended use rates application timing methods of application and insecticide resistance management) Incorporate Gharda 15G into the top 1/2 to 1 inch of soil using suitable equipment

**Postemergence Band Treatment** For postemergence control of sugar beet maggot larvae place Gharda 15G in a band 3 to 5 inches wide over the beet row (up to 2 to 4 true leaf stage of plant growth) Apply Gharda 15G at the rate of 6.5 to 9 oz per 1 000 feet of row (equivalent to 10 to 13.5 lb per acre based on a 22 inch row spacing) Incorporate Gharda 15G into the top 1/2 to 1 inch of soil using a suitable incorporation device

**Restrictions** Do not make more than one application per year

## Sunflowers

**Pest Controlled** cutworms

**Application Rate** 8 oz per 1 000 feet of row

**At Plant Band Treatment** Place the granules in a 7 inch wide band over the row behind the planter shoe in front of the press wheel and incorporate into the top 1 inch of soil using suitable equipment

**Restrictions** Do not make more than one application per season

## Sweet Potatoes

**Pests Controlled** wireworms (*Conoderus*) flea beetles (*Systema*) and sweet potato beetle

**Application Rate** 13.5 lb/acre

**Preplant Broadcast Treatment** Use Gharda 15G to reduce the feeding damage caused by populations of the listed pests. Evenly broadcast the granules over the soil surface and then incorporate the granules into the soil to a depth of 4 to 6 inches using a rotary hoe disc cultivator or other suitable equipment. Plant the crop in the usual manner no later than 14 days after treatment (any delay in planting will reduce the length of time that Gharda 15G will protect against feeding damage). Gharda 15G will not control false wireworm or whitefingert beetle and other grubs that attack sweet potatoes

**Restrictions** Do not make more than one application per season. Do not harvest within 125 days of treatment

## Tobacco

**Pests Controlled** cutworms flea beetle larvae root maggots and wireworms

**Application Rate** 13.5 to 20.0 lb/acre

**Preplant Broadcast Treatment** Apply Gharda 15G one week before transplanting using equipment that will evenly distribute the granules over a treated area. Immediately following application incorporate the granules into the soil to a depth of 2 to 4 inches using suitable equipment. The application of Gharda 15G will also suppress movement of imported fire ant into treated field

**Restrictions** Do not make more than one application per season

## Brassica (Cole) Crops

(Bok Choy Broccoli Broccoli Raab Brussels Sprout Cabbage Cauliflower, Chinese Broccoli, Chinese Cabbage, Collards, Kale Kohlrabi Rutabagas, and Turnips)

**Pest Controlled** root maggot

**Application Rate** 4.6 to 9.2 ounces per 1 000 feet of row

**At Plant T Band Treatment** For direct seeded and transplanted crops apply Gharda 15G as a 4 inch wide band centered over the row. This application requires a spreader or splitter on the end of the applicator drop tube. Shallow incorporation is necessary. Placement behind the planter shoe and in front of the press wheel is recommended

**Restrictions** Do not apply more than 7 1/2 pounds of Gharda 15G per acre to crops planted in 40 inch rows or more than 15 pounds of Gharda 15G per acre to crops planted in 20 inch rows (or two rows per bed). Use proportional amounts for other row spacings not to exceed 15 pounds of Gharda 15G per acre. Do not make more than one application per season. Do not use rutabaga tops for food or feed purposes

## Radishes

**Pest Controlled** root maggot

**Application Rate** 3.3 ounces per 1 000 feet of row

**At Plant In Furrow Treatment** Place the granules in the seed furrow with the seed at planting time

**Restrictions** Do not apply more than 18.3 pounds of Gharda 15G per acre or make more than one application per season

**Table 1**  
**Application Rates Table Application Rates/1,000 Ft. of Row and Equivalent/Acre at Different Row Spacings**

Amount of Gharda 15G Per 1 000 Feet of Row	Pounds of Gharda 15G Required Per Acre from Various Row Spacing							
	40"	38"	36"	34"	32"	30"	22"	18"
3.7 ounces	3.0	3.2	3.4	3.6	3.8	4.0	5.5	6.7
4.0 ounces	3.3	3.4	3.6	3.8	4.1	4.4	5.9	7.3
4.5 ounces	3.7	3.9	4.1	4.3	4.6	4.9	6.7	8.2
6.0 ounces	4.9	5.2	5.4	5.8	6.1	6.5	8.9	10.9
6.5 ounces	5.3	5.6	5.9	6.2	6.6	7.1	9.7	11.8
7.5 ounces	6.1	6.4	6.8	7.2	7.7	8.2	11.1	13.6
8.0 ounces	6.5	6.9	7.3	7.7	8.2	8.7	11.9	14.5

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9 0 ounces	7 4	7 7	8 2	8 6	9 2	9 8	13 4	16 3
12 0 ounces	9 8	10 3	10 9	11 5	12 3	13 1	17 8	21 8
15 0 ounces	12 3	12 9	13 9	14 4	15 3	16 3	22 3	27 2
16 0 ounces	13 1	13 8	14 5	15 4	16 3	17 4	23 8	29 0

**Table 2**

**Equipment Calibration and Calibration Settings for Different Types of Equipment**

**General Instructions for Equipment Calibration**

**Caution** The following chart lists suggested initial gauge settings for application of Gharda 15G with one hopper opening per row. Be sure to check the actual application rate under your operating conditions.

- 1 Fill hopper
- 2 Attach a plastic bag to tube opening
- 3 Set your planter to the initial settings shown on chart
- 4 Measure off 1 000 row feet and drive your planter the pre-measured distance at your desired speed
- 5 Each bag should contain 6 to 8 ounces (wt.) of granules depending on your desired rate
- 6 If the result is over or under the desired rate, adjust the settings and repeat the calibration

**CALIBRATION SETTINGS**

Planter Type	Speed (mph)									
	4		5		6		7		8	
	Application Rate oz Per 1 000 row ft									
	8	16	8	16	8	16	8	16	8	16
	Gauge Setting									
Gandy <sup>1</sup>	21 4	30 2	23 7	32 4	26 0	36 0	27 7	39 0	30 2	41 0
John Deere <sup>1</sup> Max Emerge <sup>2</sup>	20	44	26	46	30	49	35	52	40	54
John Deere <sup>1</sup> 7000 Max Emerge (Old Nos on Gate)	14	22	16	24	18	26	19	28	21	30
John Deere <sup>1</sup> 7000 Max Emerge (Even Nos on Gate)	17	30	20	33	24	35	26	36	28	33
John Deere <sup>2</sup> 71 Flexi Planter and Older Planters	$\frac{1}{30}$	$\frac{2}{17}$	$\frac{2}{5}$	$\frac{2}{22}$	$\frac{2}{9}$	$\frac{2}{27}$	$\frac{2}{13}$	$\frac{2}{31}$	$\frac{2}{16}$	$\frac{3}{16}$
Allis Chalmers <sup>3</sup> 70 Series	8	13	8	13	8	13	8	13	8	13
Allis Chalmers <sup>4</sup> 78 & 79 Series	$\frac{1}{90}$	$\frac{3}{30}$	$\frac{2}{33}$	$\frac{3}{95}$	$\frac{2}{60}$	$\frac{4}{30}$	$\frac{2}{90}$	$\frac{5}{40}$	$\frac{3}{25}$	$\frac{6}{0}$
Noble <sup>1(NEW)</sup>	11	19	14	22	16	25	17	28	19	31
White Planter	11	19	14	22	16	25	17	28	19	31
International Harvester <sup>4</sup>	$\frac{1}{90}$	$\frac{3}{30}$	$\frac{2}{33}$	$\frac{3}{95}$	$\frac{2}{60}$	$\frac{4}{30}$	$\frac{2}{90}$	$\frac{5}{40}$	$\frac{3}{25}$	$\frac{6}{0}$
Buffalo All Flex <sup>5</sup> (Fleischer Mfg.)	4 7/8	10	4 7/8	10	4 7/8	10				

<sup>1</sup> Gauge setting

<sup>2</sup> Gauge setting with range 1 & 2 number is range notch

<sup>3</sup> Gauge setting is constant regardless of speed

<sup>4</sup> Gauge setting shown with stem gates & dial settings number shown is gate dial

<sup>5</sup> Number of turns open on the adjustment nut



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**Notice of Warranty and Disclaimer**

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