

PM 14 34704-259

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, D.C. 20460

MAR 15 1996

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Mr. J. Allen Dunlap III
Registration Manager
Platte Chemical Co.
P.O. Box 667
Greeley, CO 80632

S491500

Dear Mr. Dunlap:

Subject: Revised Cotton Use Directions
Clean Crop Phorate 20G
EPA Registration No. 34704-259
Your Application Dated July 25, 1995

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable, and a stamped copy is enclosed for your records.

It is understood that the word "POISON" appears in red on a contrasting background.

Sincerely yours,

A handwritten signature in cursive script, appearing to read "R. Forrest".

Robert A. Forrest
Product Manager (14)
Insecticide-Rodenticide Branch
Registration Division (7504C)



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ACCEPTED
EPA COMMENTS
in EPA Letter Dated

2 7 4

MAR 17 1996

Under the Federal Insecticide, Fungicide, and Rodenticide Act registered under EPA 34704-259

RESTRICTED USE PESTICIDE

Due to acute oral, dermal and inhalation toxicity and avian hazards

For retail sale to and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.



PHORATE 20 G

Organophosphate Insecticide

ACTIVE INGREDIENT:

Phorate: O,O-diethyl S-[(ethylthio) methyl] phosphorodithioate 20.0%

INERT INGREDIENTS: 80.0%

TOTAL 100.0%

KEEP OUT OF REACH OF CHILDREN

**DANGER
POISON**



PELIGRO

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

See Below For Antidote and Other Precautions.

NOT FOR USE OR STORAGE IN OR AROUND THE HOME

EPA REG. NO. 34704-259

EPA EST. NO. 34704-NB-1 (Lot No. Begins 08)

EPA EST. NO. 34704-CO-1 (Lot No. Begins 09)

NET WEIGHT 50 LBS. (22.68 KG)

4728

EXP07R95

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

DANGER

May be fatal by skin contact, inhalation or swallowing. DO NOT breathe dust. DO NOT get in eyes, on skin, on clothing. Rapidly absorbed through skin. Repeated inhalation or skin contact may, without symptoms, progressively increase susceptibility to poisoning.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear: coveralls over long-sleeved shirt and long pants, waterproof gloves, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure and chemical-resistant apron when cleaning equipment, mixing or loading.

A respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G).

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.

Engineering controls statements:

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets with 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.

IMPORTANT! If pesticide comes in contact with skin, wash off with soap and water.

DURING AERIAL APPLICATION, HUMAN FLAGGERS ARE PROHIBITED UNLESS IN A TOTALLY ENCLOSED VEHICLE.

WORK SAFETY RULES

REPEATED EXPOSURES TO CHOLINESTERASE INHIBITORS SUCH AS ARE CONTAINED IN THIS PRODUCT MAY, WITHOUT WARNING, CAUSE PROLONGED SUSCEPTIBILITY TO VERY SMALL DOSES OF ANY CHOLINESTERASE INHIBITOR.

Persons working with this product should have frequent blood tests of their cholinesterase levels. If the cholinesterase level falls below a critical point, no further exposure should be allowed until it has been determined by means of blood tests that the cholinesterase level has returned to normal. Before using this product consult the National Pesticide Telecommunications Network for recommendations regarding such blood tests, poisoning management, emergency treatment, and other information regarding the toxicity of phorate. The toll free number for the National Pesticide Telecommunication Network is 1-800-858-7378.

If handled indoors provide mechanical exhaust ventilation.

Keep all unprotected persons, children, livestock, and pets away from treated areas or where there is danger of drift.

Do not rub eyes or mouth with hands. If you feel sick in any way, STOP work and get help right away. See "STATEMENT OF PRACTICAL TREATMENT" section.

ANTIDOTE: Atropine is an antidote. Consult your physician about obtaining a supply of 1/100 grain (0.6 milligram) tablets for emergency use. If symptoms include blurred vision, stomach cramps or tightness in chest, don't wait for a physician but take two tablets at once. Do not take atropine unless symptoms of poisoning have occurred. See a physician as soon as possible.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED, drink one or two 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. Get medical attention.

IF INHALED, remove to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. If breathing is difficult, give oxygen.

IN CASE OF CONTACT, immediately flush eyes or skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

CALL A PHYSICIAN AT ONCE IN ALL CASES OF SUSPECTED POISONING

NOTE TO PHYSICIANS: Warning symptoms including weakness, headache, lightness of chest, blurred vision, nonreactive pinpoint pupils, salivation, sweating, nausea, vomiting, diarrhea and abdominal cramps. Give atropine intramuscularly or intravenously, depending on severity of poisoning, 2 to 4 milligrams (3 to 6 tablets, 1/100 grain each) every 10 minutes until fully atropinized as shown by dilated pupils, dry flushed skin and tachycardia. Twenty to thirty milligrams, or more, may be required during the first 24 hours. Never give opiates or phenothiazine tranquilizers. Clear chest by postural drainage. Artificial respiration or oxygen administration may be necessary. Observe patient continuously.

PHORATE 20 G
EPA REG. NO. 34704-259

for at least 48 hours. Allow no further exposure to any cholinesterase inhibitor until cholinesterase regeneration has taken place as determined by blood tests. Pralidoxime chloride (2-PAM; PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions.

ENVIRONMENTAL HAZARDS

This pesticide is extremely toxic to fish and wildlife. Birds feeding in treated areas may be killed. For terrestrial uses, 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 may be hazardous to aquatic organisms in neighboring areas. Collect or incorporate granules that are spilled during loading or are visible on soil surface in turn areas. 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.

IMPORTANT! Read precautionary statements before using this product.

PHORATE 20 G should be applied with a granular pesticide applicator properly calibrated to assure accurate placement and proper dosage.

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), notification to workers 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 48 hours.

Each 48 hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches a year.

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 over

long-sleeved shirt and long pants, waterproof gloves, chemical-resistant footwear plus socks, protective eyewear and chemical-resistant headgear for overhead exposure. Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food, or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Do not store under conditions which might adversely affect the container or its ability to function properly. Such conditions include, but are not limited to, positioning of the container in storage, storage temperature, potential for crushing or damage due to stacking, and penetration of moisture.

STORAGE: Store in safe manner. Store in original container only. Store in cool, dry place. Keep container tightly closed when not in use. Once a bag has been opened, use it completely. Reduce stacking height where local conditions, such as humidity or pallet overhang, can affect package strength. Personnel should use clothing and equipment listed under "PRECAUTIONARY STATEMENT" when handling open containers.

SPILLED MATERIAL, block to prevent spreading of spill. Scoop and sweep into a disposable container, whether it occurs indoors, or in the field.

PESTICIDE DISPOSAL: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinseate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

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.

NOTICE

PLATTE WARRANTS THAT THIS PRODUCT CONFORMS TO THE CHEMICAL DESCRIPTION ON THE LABEL THEREOF AND IS REASONABLY FIT FOR THE PURPOSES STATED ON SUCH LABEL ONLY WHEN USED IN ACCORDANCE WITH THE DIRECTIONS UNDER NORMAL USE CONDITIONS. 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 WEATHER CONDITIONS, PRESENCE OF OTHER MATERIALS, OR THE MANNER OF USE OR APPLICATION, ALL OF WHICH ARE BEYOND THE CONTROL OF PLATTE. IN NO CASE SHALL PLATTE BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. ALL SUCH RISKS SHALL BE ASSUMED BY THE BUYER, EXCEPT AS EXPRESSLY PROVIDED HEREIN. PLATTE MAKES NO WARRANTIES, GUARANTEES, OR REPRESENTATIONS OF ANY KIND, EITHER EXPRESSED OR IMPLIED, OR BY USAGE OF TRADE, STATUTORY OR OTHERWISE, WITH REGARD TO THE PRODUCT SOLD, INCLUDING, BUT NOT LIMITED TO, MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, USE OR ELIGIBILITY OF THE PRODUCT FOR ANY PARTICULAR TRADE USAGE. BUYER'S OR USER'S EXCLUSIVE REMEDY, AND PLATTE'S TOTAL LIABILITY, SHALL BE FOR DAMAGES NOT EXCEEDING THE COST OF THE PRODUCT.

TYPICAL APPLICATION RATES FOR VARIOUS ROW SPACINGS
 Rate — Oz./1,000 Ft. of Row

Row Spacing	1.6 oz.	2 oz.	4 oz.	6 oz.	8 oz.	10 oz.	12 oz.	14 oz.	16 oz.	18 oz.	20 oz.	22 oz.	24 oz.
40"				4.9	6.5	8.2	9.8	11.4	13.1	14.7	16.3	18.0	19.6
38"				5.2	6.9	8.6	10.3	12.0	13.7	15.5	17.2	18.9	20.6
36"				5.4	7.3	9.1	10.9	12.7	14.5	16.3	18.2	20.0	21.8
34"				5.6	7.7	9.7	11.6	13.5	15.4	17.4	19.3	21.3	23.2
32"				6.1	8.2	10.2	12.3	14.3	16.3	18.3	20.5	22.4	24.6
30"				6.5	8.7	10.9	13.1	15.2	17.4	19.6	21.8	24.0	26.1
26"				7.1	9.5	11.8	14.2	16.6	18.9	21.3	23.7	26.0	28.4
24"			5.4	8.2	10.9	13.6	16.3	19.1	21.8	24.5	27.2	30.0	32.7
22"			5.9	8.9	11.9	14.9	17.9	21.0	24.0	26.9	29.9	33.0	35.9
20"			6.5	9.8	13.1	16.3	19.6	22.8	26.1	29.3	32.6	35.9	39.1
16"			8.2	12.3	16.3	20.5	24.6	28.7	32.7	36.8	40.9		
12"		5.4	10.9	16.3	21.8	27.2	32.7	38.1	43.6				
8"	6.5	8.2	16.3	24.6	32.7	40.9							
6"		10.9	21.8	32.7	43.6								

EQUIVALENT POUNDS PER ACRE

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PHORATE 20 G
EPA REG. NO. 34704-259
RECOMMENDATIONS FOR USE

Crop	Pests Controlled	Rate PHORATE 20 G	Application	Remarks
BEANS	Mexican Bean Beetles	4 1/2 to 9 3/4 ozs. per 1000 ft. of row for any spacing (minimum 30-inch spacing)	Distribute the granules evenly in the row to the side of the seed at planting time.	Do not feed the foliage of treated beans within 60 days of treatment.
	Leafhoppers, Aphids, Lygus Bugs, Thrips, Mites and Seedcorn Maggots	4 1/2 to 7 ozs. per 1000 ft. of row for any row spacing (minimum 30-inch spacing)	Do not place PHORATE 20 G granules in direct contact with the seed.	
FIELD CORN: Applications at Planting Time	Corn Rootworms, Mites, Seed Corn Beetle (Iowa and Illinois Only), Reduction of Wireworms (North Central and Southeastern States only)	6 ozs. per 1000 ft. of row for any row spacing (minimum 30-inch row spacing)	Place granules in a 7-inch band over the row directly behind the planter shoes in front of the press wheel.	Do not place PHORATE 20 G granules in direct contact with seed. One additional application can be applied after cultivation OR over corn later in the season.
	Application at Cultivation	Corn Rootworms	Apply granules at time of cultivation in a band at base of plants just ahead of cultivator shovels so as to cover granules with soil. Apply in June as soon as Rootworm activity is observed.	Do not make any later applications after cultivation treatment.
FIELD CORN: Application Over the Plant	European Corn Borer (1st brood)	5 lbs. per acre	Apply granules into the whorl of the plant prior to tassel emergence by ground or air equipment.	Do not graze or cut for forage within 30 days of treatment. Do not make more than one application over plant. Do not apply under prolonged drought conditions. Consult your state experiment station or state extension service for proper timing of application.
	Corn Rootworms		Apply granules into the whorl of the plant by ground or air equipment.	
SWEET CORN: Application at Planting Time	Corn Rootworms, Mites, Seed Corn Beetle (Iowa & Illinois only), Reduction of Wireworms (North Central and Southeastern States only)	6 ozs. per 1000 ft. of row for any row spacing (minimum 30-inch row spacing)	Place granules in a 7-inch band over the row directly behind the planter shoes in front of the press wheel.	Do not place PHORATE 20 G granules in direct contact with seed. One additional treatment can be made at cultivation.
	Application at Cultivation	Corn Rootworms	Apply granules at time of cultivation in a band at base of plants just ahead of cultivator shovels so as to cover granules with soil. Apply in June as soon as rootworm activity is observed.	Do not make any later applications after cultivation treatment.
COTTON: At Planting Time	Early season Thrips, Aphids, Mites & Leaf Miners	3 ozs. per 1000 ft. of row for any row spacing (minimum 30-inch spacing or no more than 3.3 lbs./A.)	Distribute the granules evenly in the furrow at planting time. Soil temperature, moisture and tillth should be favorable for good germination and emergence.	Suggested for areas where a limited period of protection against early season pests is necessary for good cotton growth. Use 2 lbs. PHORATE 20 G per acre for hill-dropped cotton. Do not feed treated hay or forage to livestock.
	Mites, Thrips, Aphids, Black Cutworms, Leafhoppers, White Flies and Leaf Miners.	6 to 9 ozs. per 1000 ft. of row for any row spacing (minimum 36-inch spacing or no more than 8.2 lbs./A.) 6 to 7.5 oz. per 1000 ft. of row for 30-inch row spacing or no more than 8.2 lbs./A.	Distribute the granules evenly in the furrow at planting time. Soil temperature, moisture and tillth should be favorable for good germination and emergence. Under adverse conditions plant stand may be affected.	Recommended for areas requiring an extended period of mite control as well as early season protection against other cotton pests. The higher rate is suggested for heavier soil. Do not feed treated hay or forage to livestock.
COTTON: At Side-Dressing Time (Irrigated cotton only)	Mites from spring to early summer	9 to 12 ozs. per 1000 ft. of row for any row spacing (minimum 36-inch spacing or no more than 10.9 lbs./A.) 9 to 10 oz. per 1000 ft. of row for 30-inch row spacing or no more than 10.9 lbs./A.	Incorporate granules into soil as a side-dress application deep enough to avoid disturbance by future cultivations.	Irrigate as soon as possible after treatment. Do not apply later than 60 days before harvest. Do not feed treated hay or forage to livestock.
PEANUTS: At Planting Time	Thrips, Leafhoppers	5 1/2 ozs. per 1000 ft. of row for any row spacing (minimum 24-inch spacing)	Distribute the granules evenly in the furrow at planting time. For best results, plant peanuts when soil temperatures are favorable for establishing good peanut stands.	Do not graze or feed treated hay or forage to livestock.
	At Pegging Time	Southern Corn Rootworms and Leafhoppers	11 oz. per 1000 ft. of row for any row spacing (minimum 24-inch spacing)	Distribute the granules as a band over the fruiting zone at pegging time. Work into the top few inches of soil immediately.
POTATOES.	Aphids, Leafhoppers, Leaf Miners, Psyllids, Flea Beetle Larvae and reduction of Flea Beetle Adults.	LIGHT OR SANDY SOILS: 11 1/4 ozs. per 1000 ft. of row for any row spacing (minimum 32-inch spacing) HEAVY OR CLAY SOILS: 17 ozs. per 1000 ft. of row for any row spacing (minimum 32-inch spacing)	Distribute the granules evenly in the furrow or granules may be banded on each side of the row at planting time.	Wait 90 days after treatment before harvesting potatoes.
	Colorado Potato Beetle (early season control)	HEAVY OR CLAY SOILS: 17 1/4 ozs. per 1000 ft. of row for any row spacing (minimum 32-inch spacing)		
SORGHUM At Planting Time	Aphids (Greenbugs)	6 ozs. per 1000 ft. of row for any row spacing (minimum 30-inch spacing)	Place granules 2 inches to side and 1 inch below the seed at planting or as a 7-inch band over the row just prior to press wheel.	Do not place PHORATE 20 G granules in direct contact with seed. A second application of granules may be applied topically later in the season.
At Plant Emergence	Aphids (Greenbugs) Banks Grass Mites (excluding Trans-Pecos area of Texas)	4 7/8 lbs. per acre	Broadcast granules into the whorls of the plants by air or ground equipment.	Make only one application after plant emergence. Do not apply within 28 days of harvest.
SOYBEANS.	For the early season control of Mexican bean beetle and leafhoppers	9 ozs. per 1000 ft. of row for any row spacing (minimum 30-inch row spacing)	Distribute the granules evenly in the row to the side of the seed at planting time.	Do not place granules in direct contact with the seed. Do not feed the foliage of treated soybeans. Crop injury may result when preplant incorporated or pre-emergence applications of metribuzin herbicides or other soil-applied organophosphate pesticides are used in conjunction with this product.
	Seedcorn maggots	9 ozs. per 1000 ft. of row for any row spacing (minimum 30-inch row spacing)	Distribute the granules evenly in the row to the side of the seed at planting time, or place granules in a 7-inch band over the row directly behind the planter shoe in front of the press wheel.	
SUGAR BEETS	Aphids, Beet Root Maggots, Leafhoppers, Mites, Leaf Miners	4 1/2 ozs. per 1000 ft. of row for any row spacing (minimum 20-inch spacing)	Application should be made by drilling or broadcast at seeding time.	Do not place PHORATE 20 G granules in direct contact with the seed. Do not apply within 30 days of harvest. Do not feed sugar beet tops or silage to dairy cattle. Consult your state experiment station or state extension service for proper timing of application in your area.
	Aphids, Mites	4 7/8 to 7 1/2 lbs. per acre	Apply to foliage when plants are dry. Use the higher rate to dense foliage for good coverage. Foliar application by air may be used for aphid control when wet soil prohibits ground application.	
SUGAR CANE (Florida)	Wireworms	19 1/2 lbs. per acre	Apply in a 10 to 12 inch band directly on the seed piece and surrounding soil in the open furrow immediately before covering.	Do not graze or feed treated hay or forage to livestock.
WHEAT Application at Planting Time	Grasshoppers, Aphids (Western and North Central States only) Hessian Fly	12 oz. per 1000 ft. of row for any row spacing (minimum 8 inch spacing)	Apply the granules in the seed furrow at planting time.	Do not feed or graze foliage within 45 days of treatment. Do not make any later applications after planting time treatment.
	Application Over the Plant	Aphids (Western States Only)	4 7/8 lbs. per acre	Broadcast the granules evenly over the field by air equipment when aphids first appear.

FORMULATED FOR
PLATTE CHEMICAL CO.
 150 SO. MAIN STREET FREMONT, NEBRASKA 68025-5697