

241-257

12-22-2000

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DEC 22 2000



**UNITED STATES ENVIRONMENTAL PROTECTION AGENCY**

WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

Mr. John J. Wrubel,  
Registrations Manager  
Global Regulatory Affairs  
BASF Corporation  
P. O. Box 400  
Princeton, NJ 08543-0400

Dear Mr. Wrubel:

Subject: Deletion of Wheat and Other Revisions  
Lock n Load and Bag Container Labels  
Thimet 20 G Soil and Systemic Insecticide  
EPA Reg. No. 241-257  
Your Application of June 16, 2000,  
As Revised October 3, 2000  
Federal Register Notice of August 18, 2000

The labeling amendment referred to above for each of the subject container labels, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, As Amended (FIFRA), is acceptable, provided that you submit one copy of your final printed label for each container incorporating the corrections stated below before you release the product for shipment.

1. In the statements regarding chemical resistant materials for Personal Protective Equipment (PPE), include examples of materials that are in the category cited on the label which is category A. Though the second sentence in the PPE section states that some of these materials are listed below, the submitted label does not include any such list.

2. The word "POISON" must appear in red on a contrasting background in close proximity to the front panel signal word.

3. On the Lock n Load container label, delete the reference to alternate container disposal procedures such as limited open burning. The empty container is to be returned to point of purchase and such reference to alternate procedures would not be appropriate.

If this condition is not complied with, the registrations will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the products bearing the amended label constitutes acceptance of this condition.

A stamped copy of each of the subject container labels is enclosed for your records.

Sincerely,



Marilyn A. Mautz

Biologist

Insecticide-Rodenticide Branch  
Registration Division (7504C)

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**RESTRICTED USE CLASSIFICATION**  
**Due to acute oral and dermal 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.

American Cyanamid Company endorses Certification to promote the responsible use of pesticides to insure the protection of man and the environment.

**THIMET® 20-G**  
**soil and systemic insecticide**  
**LOCK 'n LOAD® Closed Handling System**

Active Ingredient:

Phorate: 0,0-diethyl S-[(ethylthio) methyl] phosphorodithioate .....	20.0%
Inert Ingredients:.....	80.0%
<hr/>	
Total.....	100.0%

EPA Reg. No. 241-257

**KEEP OUT OF REACH OF CHILDREN**

**DANGER/PELIGRO!**



EPA Est. No.  
**ACCEPTED**  
 with COMMENTS  
 in EPA Letter Dated:  
 DEC 22 2000  
 Under the Federal Insecticide,  
 Fungicide, and Rodenticide Act  
 as amended, for the pesticide  
 registered under EPA Reg. No.  
 241-257

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).

**FIRST AID**  
**Organophosphate (A Cholinesterase Inhibitor)**

**CALL A PHYSICIAN AT ONCE IN ALL CASES OF SUSPECTED POISONING.**

**If swallowed:**  
 Call a poison control center 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 center or doctor.  
 Do not give anything by mouth to an unconscious person.

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

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**If on skin or clothing:**

Take off contaminated clothing.  
Rinse skin immediately with plenty of water for 15-20 minutes.  
Call a poison control center or doctor for 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 center or doctor for treatment advice.

**Antidote:** Atropine is an antidote.

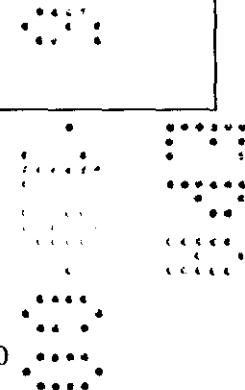
**See Next Page for Additional Precautionary Statements**

**IN CASE OF AN EMERGENCY ENDANGERING LIFE OR PROPERTY INVOLVING THIS PRODUCT, CALL COLLECT, DAY OR NIGHT, AREA CODE 973-683-3100.**

**NOTE TO PHYSICIANS:** Warning signs and symptoms include weakness, muscle twitching, headache, tightness in chest, respiratory depression, blurred vision, miosis, hypersecretion, nausea, vomiting, diarrhea, and abdominal cramps. If poisoning is probable, treat the patient immediately. Clear airway and provide oxygen before administering atropine. Give atropine intravenously (IV), intramuscularly or through an alternative route such as an endotracheal tube. Depending on severity of poisoning, use 2 to 4 milligrams IV in adults (or 0.05 mg/kg in children under 12 years) every 10 - 15 minutes until fully atropinized as shown primarily by control of pulmonary secretions. Proceed concurrently with decontamination using proper protective gear; for example, chemical-resistant gloves rather than cotton or leather ones. Use soap (preferably, tincture of green soap) and water, or a dilute hypochlorite solution, for decontaminating skin. Maintain atropinization by repeated doses based on recurrence of symptoms. Twenty to thirty milligrams, or more, may be required during the first 24 hours, and preservative-free atropine preparation should be used if large doses are required. Generally, inducing emesis is not advisable. Avoid opiates, parasympathomimetic agents (e.g. succinylcholine), theophylline, reserpine, and or phenothiazines Suction oral secretions and emesis to avoid aspiration. Artificial respiration or oxygen administration may be necessary. If not contraindicated, gastric emptying by lavage may be considered after ingestion of a potentially life-threatening amount if it can be performed soon after ingestion (within an hour). A slurry of activated charcoal may be medically warranted at an oral dose appropriate for adult, child, or infant. For seizures, give a benzodiazepine intravenously. Observe patient continuously for at least 72 hours. Allow no further exposure until cholinesterase regeneration has taken place as determined by blood tests.

Pralidoxime chloride (2-PAM; PROTOPAM chloride) appears to be an effective adjunct to atropine, especially in those severely ill and if given soon. Before it's administered, obtain a blood sample for cholinesterase analysis. Adjusting for age and weight, pralidoxime may be administered as a continuous infusion after a loading dose or using a bolus method.

Have the product leaflet label with you when calling a poison control center or doctor.



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SOLD BY  
**American Cyanamid Company**  
Global Agricultural Products Division  
Crop Protection Products Department  
One Campus Drive  
Parsippany, NJ 07054 ©2000

**Net Weight:**

® Registered Trademark of American Cyanamid Company

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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER!**

Fatal if swallowed, inhaled or absorbed through the skin. Do not breathe dust. Do not get in eyes, on skin, or on clothing.

**Do Not Contaminate Food or Feed Products**

Once a container has been opened, use it completely. Make sure the hoppers are emptied while still in the field. Refer to STORAGE AND DISPOSAL statement for further instructions.

**Keep Out of Reach of Domestic Animals.**

**Not for Use or Storage in or Around the Home.**

**WORK SAFETY RULE**

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 exposures 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 First Aid section.

**Personal Protective Equipment (PPE)**

FAILURE TO FOLLOW PRECAUTIONS INCLUDING WEARING PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) MAY RESULT IN SERIOUS OR EVEN LIFE THREATENING POISONING REQUIRING IMMEDIATE MEDICAL ATTENTION. THE ACTIVE INGREDIENT OF THIS GRANULAR FORMULATION CAN BE ABSORBED THROUGH THE SKIN TO CAUSE POISONING.

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- coveralls over long sleeved shirt and long pants,
- chemical-resistant gloves,
- chemical-resistant footwear plus socks,
- protective eye wear,
- chemical-resistant headgear for overhead exposure,
- chemical-resistant apron when cleaning equipment or loading, and
- 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) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter.

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

Do not reuse contaminated clothing. Clothing and protection equipment heavily contaminated must be destroyed according to state and local regulations. **HEAVILY CONTAMINATED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**

When handlers use closed systems, or enclosed cabs 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.

The LOCK'n LOAD system, when used correctly, qualifies as a closed loading system under the WPS. Mixer/Loaders correctly loading this product using the LOCK'n LOAD system are permitted to wear:

- long-sleeved shirt and long pants,
- shoes and socks,
- a chemical-resistant apron, and
- chemical-resistant gloves

**IMPORTANT:** When reduced PPE is worn because a closed system is being used, handlers must be provided with all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown. The PPE required for applicators and other handlers must be worn when performing all pesticide handling tasks other than loading and application, such as spill clean-up and equipment maintenance, cleaning and repair.

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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.

### **ENVIRONMENTAL HAZARDS**

This pesticide is very highly toxic to fish and wildlife. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wastewater or rinsate. Birds and mammals may be killed if granules are not properly covered with soil in all areas of the treated field and in loading areas. Do not apply in wet soil conditions that may prevent the equipment from covering pesticide granules.

Under some conditions, phorate may have a high potential for runoff into surface water for several days post-application. These conditions include:

- poorly draining or wet soils with readily visible slopes toward adjacent surface waters,
- frequently flooded areas,
- areas over-laying extremely shallow ground water,
- areas with in-field canals or ditches that drain to surface water,
- areas not separated from adjacent surface waters with vegetated filter strips,
- areas over-laying tile drainage systems that drain to surface water,
- areas where an intense or sustained rainfall is forecasted to occur within 48 hours.

Do not apply within 50 feet of any well to minimize potential contamination by surface water run-in.

Do not wash, load or empty application equipment near any well, as this practice is a potential source of ground water contamination.



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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. This label must be in the possession of the user at the time of pesticide application. 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.

Do not use this product on any crop on Long Island, New York. Do not apply this product by air.

### 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 annual 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,
- chemical-resistant gloves,
- chemical-resistant footwear plus socks,
- protective eye wear,
- 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.

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**STORAGE AND DISPOSAL****Storage**

Store pesticide products in a secure locked area where children, unauthorized persons and animals cannot enter. Do not store in the same area with food or feed.

**Prohibitions**

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

**Pesticide Disposal**

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate 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**

Return empty container to point of purchase.

**General**

Consult Federal, State or local disposal authorities for approved alternative procedures such as limited open burning.

**DISCLAIMER**

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 use of, or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risk referred to above. **CYANAMID DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**BUYER'S EXCLUSIVE REMEDY AND AMERICAN CYANAMID COMPANY'S LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THIMET 20-G.** In no case shall Cyanamid or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

THIMET 20GLNL (closed handling)  
21-257

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**BEFORE USING, READ PRECAUTIONARY STATEMENTS.**

**THIMET 20-G** should be applied with a granular pesticide applicator properly calibrated to assure accurate placement and proper dosage. Cover granules that may be exposed on the ends of the treated rows and turns and loading areas by deep discing immediately after treating fields.

**CROPS**

Crop	Pests Controlled	Rate of THIMET 20-G	Application	Remarks
<b>BEANS</b>  <b>At Planting</b>	Mexican bean beetles	4.9-9.4 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 10.2 lb/A	Drill granules to the side of the seed.	Do not place THIMET 20-G granules in direct contact with seed.  Do not graze or feed treated hay or forage to livestock.  Do not apply later than 60 days before harvest.
	Leafhoppers Aphids Lygus bugs Thrips Mites Seedcorn maggots	4.5-7.0 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 7.6 lb/A		
	Seedcorn maggots		Apply granules in a band over the row.	

**FIELD CORN  
AND SWEET  
CORN  
(excluding  
popcorn)  
  
At Planting**

Corn rootworms  
Wireworms  
White grubs  
Seedcorn maggots  
Seedcorn beetles  
Flea beetles  
Mites

6 oz per 1,000 ft of  
row for any row  
spacing (30-inch  
minimum) or no more  
than 6.5 lb/A

Place granules in a  
7-inch band over the  
row directly behind  
the planter shoe in  
front of or behind  
the press wheel and  
lightly incorporate.

Do not use in-furrow  
application.  
  
For field corn:  
Accent\* herbicide and  
Beacon\*\* herbicide  
may be applied after  
**BANDED**  
applications of  
**THIMET 20-G.**

Refer to the Accent  
and Beacon labels for  
pertinent use  
directions and  
precautions.

Apply only one at  
planting, or at  
cultivation treatment  
of THIMET 20G per  
season.

**FIELD CORN  
AND SWEET  
CORN  
(excluding  
popcorn)  
  
At Cultivation**

Corn Rootworms

Apply granules to  
base of plants just  
ahead of cultivation  
shovels so as to  
cover granules with  
soil.

Do not harvest within  
30 days of last  
treatment.

Apply only one at  
planting, or at  
cultivation treatment  
of THIMET 20G per  
season.

<b>FIELD CORN</b> (excluding sweet and popcorn)	Chinch bug nymphs (Arkansas, Colorado, Kansas, Louisiana, Mississippi, Nebraska, Oklahoma, Tennessee, Texas)	Apply granules to base of plants just ahead of cultivation shovels so as to cover granules with soil. Apply as soon as chinch bug nymphs are observed at base of plant. Granules must be placed at the infested region of the plants and adequately covered with soil.	Later infestations of chinch bugs may not be controlled.  Do not harvest, graze, or cut forage within 30 days of last treatment. Apply only one at planting or at cultivation treatment of THIMET 20G per season.	
<b>COTTON</b> At Planting	Early season control of: Thrips Leafminers	3.0 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 3.3 lb/A	Distribute the granules evenly in the furrow at planting time. Soil temperature, moisture and tilth 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.  If seeds and THIMET are hill-dropped, THIMET rates may be reduced by one-half (to 1.5 lb THIMET 20G per acre).  Do not graze or feed treated hay or forage to livestock.  Crop injury may occur if applications of diuron containing herbicides such as Karmex* or Direx*** are made in conjunction with soil-applied organo-phosphate pesticides.

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**COTTON**

**At Planting**

Mites  
Thrips  
Aphids  
Black cutworms  
Leafhoppers  
Whiteflies  
Leafminers

6.0-9.0 oz per 1,000 ft  
of row spacing  
(36-inch minimum) or  
no more than 8.2 lb/A  
  
6.0-7.5 oz per 1,000 ft  
of row for 30-inch row  
spacing or no more  
than 8.2 lb/A

Distribute the  
granules evenly in  
the furrow at  
planting time. Soil  
temperature,  
moisture and tilth  
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  
soils. Do not graze or  
feed treated hay or  
forage to livestock.

Crop injury may occur  
if applications of  
diuron containing  
herbicides such as  
Karmex or Direx are  
made in conjunction  
with soil-applied  
organophosphate  
pesticides.

Apply only one at  
planting or side-  
dressing treatment of  
THIMET 20G per  
season.

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**COTTON**  
**Side-Dressing**  
**(Irrigated**  
**Cotton Only)**

Mites from spring  
to early summer

9.0-12.0 oz per  
1,000 ft of row for any  
row spacing (36-inch  
minimum) or no more  
than 10.9 lb/A

9.0-10.0 oz per  
1,000 ft of row for  
30-inch row spacing  
or no more than  
10.9 lb/A

Incorporate  
granules into the  
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 graze  
or feed treated hay or  
forage to livestock.

Apply only one at  
planting or side-  
dressing treatment of  
THIMET 20G per  
season.

Crop injury may occur  
if applications of  
diuron containing  
herbicides such as  
Karmex or Direx are  
made in conjunction  
with soil-applied  
organophosphate  
pesticides.

<b>PEANUTS</b> <b>At Planting</b>	Thrips Leafhoppers	5.5 oz per 1,000 ft of row for any row spacing (24-inch minimum) or no more than 7.5 lb/A	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.  Wait 90 days after treatment before harvesting peanuts.  Apply only one at planting or at pegging treatment of THIMET 20G per season.
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<b>PEANUTS</b> <b>At Pegging</b>	Southern corn rootworms Leafhoppers Wireworms	11.0 oz per 1,000 ft of row for any row spacing (24-inch minimum) or no more than 15 lb/A	Distribute the granules as a band over the fruiting zone at pegging time. Work into the top few inches of soil immediately.	Do not graze or feed treated hay or forage to livestock.  Wait 90 days after treatment before harvesting peanuts.  Apply only one at planting or at pegging treatment of THIMET 20G per season.
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<b>POTATOES</b> <b>At Planting</b>	Aphids Leafhoppers Leafminers Psyllids Wireworms Flea beetle larvae and reduction of flea beetle adults.	Light or Sandy Soils: 11.3 oz per 1,000 ft of row for any row spacing (32-inch minimum) or no more than 11.5 lb/A  Heavy or Clay Soils: 17.3 oz per 1,000 ft of row for any row spacing (32-inch minimum) or no more than 17.7 lb/A	Distribute the granules evenly in the furrow or band on each side of the row.	Wait 90 days after treatment before harvesting potatoes.
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	Colorado potato beetle (early season control)	Heavy or Clay Soils: 17.3 oz per 1,000 ft of row for any row spacing (32-inch minimum) or no more than 17.7 lb/A	Do not use for Colorado potato beetle control on the DelMarva Peninsula.
<b>POTATOES</b>	Aphids Leafhoppers Wireworms Colorado potato beetle (early season only)	Light or Sandy Soils: 11.3 oz per 1,000 ft of row for any row spacing (32-inch minimum).  Do not use on heavy soils.	For postemergence treatment: Place granules on each side of the row at the level of the seed pieces before covering at hilling. Apply 4 to 6 weeks after planting.
<b>Post Emergence</b>			Wait 90 days after treatment before harvesting potatoes.  DO NOT apply THIMET 20-G as a sidedress treatment if THIMET 20-G has been applied at planting time.  Do not use for Colorado potato beetle control on the DelMarva Peninsula.
<b>SORGHUM</b>	Greenbugs	6.0 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 6.5 lb/A.	Place granules in a 7-inch band over the row OR drill 1 inch below and 2 inches to the side of the seed.
<b>At Planting</b>			Do not place THIMET 20-G granules in direct contact with seed. Apply only one at planting or at cultivation treatment of THIMET 20G per season.

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**SORGHUM** Chinch bug nymphs  
**At Cultivation** (Colorado, Kansas, Nebraska)

Apply granules to base of plants just ahead of cultivation shovels so as to cover granules with soil. Apply as soon as chinch bug nymphs are observed at base of plants. Granules must be placed at the infested region of the plants and adequately covered with soil.

Later infestation of chinch bugs may not be controlled.

Do not make any application of THIMET 20-G after cultivation treatment.

Do not feed foliage before grain harvest.

Do not apply within 30 days of harvest.

Apply only one at planting or at cultivation treatment of THIMET 20G per season.

**SOYBEANS** For early season control of:  
**At Planting** Mexican bean beetles  
Leaf Hoppers  
Lygus bugs  
Seedcorn maggots  
Thrips  
Aphids  
Mites

9.0 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 9.8 lb/a

Drill granules to the side of the seed.

Do not place THIMET 20-G granules in direct contact with seed. Do not feed the foliage of treated soybeans. Crop injury may result when preplant incorporated or preemergence applications of metribuzin herbicides are used in conjunction with this product or other soil-applied organo-phosphate pesticides.

Seedcorn maggots

Place granules in a 7-inch band over the row directly behind the planter shoe and in front of the press wheel.

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<b>SUGAR BEETS</b>  <b>At planting</b>	Aphids Beet root maggots Leafhoppers Mites Leafminers	4.5 oz per 1,000 ft of row for any row spacing (20-inch minimum) or no more than 7.4 lb/A	Drill granules to side of the seed OR place granules in a band over the seed.	Do not place THIMET 20-G granules in direct contact with the seed.  Do not apply within 30 days of harvest  Apply only one at planting or postemergence treatment of THIMET 20G per season.
<b>SUGAR BEETS</b>  <b>Post-emergence</b>	Mites Aphids Beet root maggots	4.9-7.5 lb per acre	Apply postemergence when plants are dry. Use the higher rate on dense foliage for good coverage. Incorporate granules into the soil with a cultivator, rotary hoe or other suitable equipment.	Apply only one at planting or postemergence treatment of THIMET 20G per season.  Do not apply within 30 days of harvest.  Do not broadcast.  Consult your state experiment station or state extension service for proper timing of application in your area.
<b>SUGAR CANE (Florida)</b>	Wireworms	19.5 lb per acre	Apply in a 10-12 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.

\* Accent and Karmex are a registered trademark of E.I. duPont deNemours and Company  
 \*\* Beacon is a registered trademark of Novartis.  
 \*\*\* Direx is a registered trademark of Griffin Ag Products Co., Inc.

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### USE RATES AS POUNDS PER ACRE

Application Rate (ounces per 1,000 Ft of Row)

	<u>1.2</u>	<u>3.0</u>	<u>4.5</u>	<u>4.9</u>	<u>5.5</u>	<u>6.0</u>	<u>7.0</u>	<u>7.5</u>	<u>9.0</u>	<u>9.4</u>	<u>10.0</u>	<u>11.0</u>	<u>11.3</u>	<u>12.0</u>	<u>17.3</u>
40"		2.5	3.7	4.0	4.5	4.9	5.7	6.1	7.4	7.7	8.2	9.0	9.2	9.8	14.1
38"		2.6	3.9	4.2	4.7	5.2	6.0	6.4	7.7	8.1	8.6	9.5	9.7	10.3	14.9
36"		2.7	4.1	4.4	5.0	5.4	6.4	6.8	8.2	8.5	9.1	10.0	10.3	10.9	15.7
34"		2.9	4.3	4.7	5.3	5.8	6.7	7.2	8.6	9.0	9.6	10.6	10.9	11.5	16.6
32"		3.1	4.6	5.0	5.6	6.1	7.1	7.7	9.2	9.6	10.2	11.2	11.5	12.3	17.7
30"		3.3	4.9	5.3	6.0	6.5	7.6	8.2	9.8	10.2	10.9	12.0	12.3	13.1	
26"		3.8	5.7	6.2	6.9	7.5	8.8	9.4	11.3	11.8	12.6	13.8	14.2		
24"		4.1	6.1	6.7	7.5	8.2	9.5	10.2	12.3	12.8	13.6	15.0			
22"		4.5	6.7	7.3											
20"	2.0	4.9	7.4												
16"	2.5														
12"	3.3														
8"	4.9														

To determine other use rates, in pounds per acre:

Take desired rate (ounces) and divide by 1,000 ft of row, divide by 16 oz/lb, divide by row width in feet, multiply by 43,560 ft<sup>2</sup>/A = lb/A.

**Example for 10 oz in 1,000 ft of row, 36 inch row width (3 ft):**

$$\frac{(10 \text{ oz}) (43,560 \text{ ft}^2/\text{A})}{(1,000 \text{ ft row}) (16 \text{ oz/lb}) (3 \text{ ft row width})} = 9.075 \text{ lb/A}$$

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## CALIBRATION INFORMATION

### FIRST READ THE LABEL

It is important that applicator equipment be properly set to deliver the labeled rate. The table below contains suggested starting gauge settings for calibration at planting speeds of 5 or 7 mph and application rates of 4.5, 6.0 or 9.0 oz. per 1,000 ft of row.

NOTE: The settings in this table SHOULD ONLY BE USED AS STARTING POINTS. Continually check the amount of THIMET 20-G used against a known length of row and make further adjustments accordingly. Also check calibration occasionally to make sure equipment wear, changing moisture conditions, etc. have not caused a change in flow rate.

### SUGGESTED GRANULAR APPLICATOR SETTING<sup>1</sup>

Applicator	Planter Speed 5 mph			Planter Speed 7 mph		
	4.5 oz.	6.0 oz.	9.0 oz.	4.5 oz.	6.0 oz.	9.0 oz.
John Deere MaxEmerge 2	14	17	23	17	21	33
John Deere Max-Emerge 2 with Chemizer Rotors	15	18	26	19	24	36
John Deere Max-Emerge (Odd Notches 5-15-25-35)	9	11	14	11	13	17
John Deere Max-Emerge (Even Notches 0-10-20-30)	9	13	20	13	19	26
John Deere 71 Flexi-Planter (John Deere Metal Hoppers)	1/23	1/26	2/3	1/26	1/32	2/14
New International Harvester (2 gauges hopper)	1/9	2/2	2/6	2/2	2/5	3/3
Old International Harvester (1 gauge hopper)	1/6	1/8	2/3	1/9	2/2	2/9
New Gandy	15	18	22	18	21	25
New Noble	6	8	11	8	11	14
Old Noble	8	11	16	12	15	22
Allis Chalmers (78 and 79 Series)	4	5	7	4	5	7
Allis Chalmers #385	10	11	14	11	13	18
White 6000	9	12	16	12	16	19
Kinze (even 0-10-20-30)	6	9	13	9	12	17

<sup>1</sup> Suggested starting point only.

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**RESTRICTED USE CLASSIFICATION**  
**Due to acute oral and dermal 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.

American Cyanamid Company endorses Certification to promote the responsible use of pesticides to insure the protection of man and the environment.

**THIMET® 20-G**  
**soil and systemic insecticide**

Active Ingredient:

Phorate: 0,0-diethyl S-[(ethylthio) methyl] phosphorodithioate .....	20.0%
Inert Ingredients: .....	80.0%
-----	
Total.....	100.0%

EPA Reg. No. 241-257

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER/PELIGRO!**

 **POISON** 

ACCEPTED  
with COMMENTS  
in EPA Letter Dated:

DEC 22 2002

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
**241-257**

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).

**FIRST AID**  
**Organophosphate (A Cholinesterase Inhibitor)**  
**CALL A PHYSICIAN AT ONCE IN ALL CASES OF SUSPECTED POISONING.**

**If swallowed:**  
Call a poison control center 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 center or doctor.  
Do not give anything by mouth to an unconscious person.

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

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**If on skin or clothing:**

Take off contaminated clothing.  
Rinse skin immediately with plenty of water for 15-20 minutes.  
Call a poison control center or doctor for 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 center or doctor for treatment advice.

**Antidote:** Atropine is an antidote.

**See Next Page for Additional Precautionary Statements**

**IN CASE OF AN EMERGENCY ENDANGERING LIFE OR PROPERTY INVOLVING THIS PRODUCT, CALL COLLECT, DAY OR NIGHT, AREA CODE 973-683-3100.**

**NOTE TO PHYSICIANS:** Warning signs and symptoms include weakness, muscle twitching, headache, tightness in chest, respiratory depression, blurred vision, miosis, hypersecretion, nausea, vomiting, diarrhea, and abdominal cramps. If poisoning is probable, treat the patient immediately. Clear airway and provide oxygen before administering atropine. Give atropine intravenously (IV), intramuscularly or through an alternative route such as an endotracheal tube. Depending on severity of poisoning, use 2 to 4 milligrams IV in adults (or 0.05 mg/kg in children under 12 years) every 10 – 15 minutes until fully atropinized as shown primarily by control of pulmonary secretions. Proceed concurrently with decontamination using proper protective gear; for example, chemical-resistant gloves rather than cotton or leather ones. Use soap (preferably, tincture of green soap) and water, or a dilute hypochlorite solution, for decontaminating skin. Maintain atropinization by repeated doses based on recurrence of symptoms. Twenty to thirty milligrams, or more, may be required during the first 24 hours, and preservative-free atropine preparation should be used if large doses are required. Generally, inducing emesis is not advisable. Avoid opiates, parasympathomimetic agents (e.g. succinylcholine), theophylline, reserpine, and or phenothiazines Suction oral secretions and emesis to avoid aspiration. Artificial respiration or oxygen administration may be necessary. If not contraindicated, gastric emptying by lavage may be considered after ingestion of a potentially life-threatening amount if it can be performed soon after ingestion (within an hour). A slurry of activated charcoal may be medically warranted at an oral dose appropriate for adult, child, or infant. For seizures, give a benzodiazepine intravenously. Observe patient continuously for at least 72 hours. Allow no further exposure until cholinesterase regeneration has taken place as determined by blood tests.

Pralidoxime chloride (2-PAM; PROTOPAM chloride) appears to be an effective adjunct to atropine, especially in those severely ill and if given soon. Before it's administered, obtain a blood sample for cholinesterase analysis. Adjusting for age and weight, pralidoxime may be administered as a continuous infusion after a loading dose or using a bolus method.

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SOLD BY  
American Cyanamid Company  
Global Agricultural Products Division  
Crop Protection Products Department  
One Campus Drive  
Parsippany, NJ 07054 ©2000

**Net Weight:**

® Registered Trademark of American Cyanamid Company



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**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
DANGER!**

Fatal if swallowed, inhaled or absorbed through the skin. Do not breathe dust. Do not get in eyes, on skin, or on clothing.

**Do Not Breathe Dust**

While emptying container into equipment, pour downwind and allow as little free fall as possible. Do not pour at face level and do not allow dust to reach the breathing zone.

**Do Not Contaminate Food or Feed Products**

Once a container has been opened, use it completely. Make sure the hoppers are emptied while still in the field. Refer to STORAGE AND DISPOSAL statement for further instructions.

**Keep Out of Reach of Domestic Animals.**

**Not for Use or Storage in or Around the Home.**

**WORK SAFETY RULE**

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 exposures 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 First Aid section.

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### **Personal Protective Equipment (PPE)**

FAILURE TO FOLLOW PRECAUTIONS INCLUDING WEARING PROPER PERSONAL PROTECTIVE EQUIPMENT (PPE) MAY RESULT IN SERIOUS OR EVEN LIFE THREATENING POISONING REQUIRING IMMEDIATE MEDICAL ATTENTION. THE ACTIVE INGREDIENT OF THIS GRANULAR FORMULATION CAN BE ABSORBED THROUGH THE SKIN TO CAUSE POISONING.

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear:

- coveralls over long sleeved shirt and long pants,
- chemical-resistant gloves,
- chemical-resistant footwear plus socks,
- protective eye wear,
- chemical-resistant headgear for overhead exposure,
- chemical-resistant apron when cleaning equipment or loading, and
- 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) or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any N, R, P, or HE prefilter.

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

Do not reuse contaminated clothing. Clothing and protection equipment heavily contaminated must be destroyed according to state and local regulations. **HEAVILY CONTAMINATED CLOTHING CANNOT BE ADEQUATELY DECONTAMINATED.**

When handlers use closed systems, or enclosed cabs 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.

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## ENVIRONMENTAL HAZARDS

This pesticide is very highly toxic to fish and wildlife. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark. Runoff may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment wastewater or rinsate. Birds and mammals may be killed if granules are not properly covered with soil in all areas of the treated field and in loading areas. Do not apply in wet soil conditions that may prevent the equipment from covering pesticide granules.

Under some conditions, phorate may have a high potential for runoff into surface water for several days post-application. These conditions include:

- poorly draining or wet soils with readily visible slopes toward adjacent surface waters,
- frequently flooded areas,
- areas over-laying extremely shallow ground water,
- areas with in-field canals or ditches that drain to surface water,
- areas not separated from adjacent surface waters with vegetated filter strips,
- areas over-laying tile drainage systems that drain to surface water,
- areas where an intense or sustained rainfall is forecasted to occur within 48 hours.

Do not apply within 50 feet of any well to minimize potential contamination by surface water run-in.

Do not wash, load or empty application equipment near any well, as this practice is a potential source of ground water contamination.

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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. This label must be in the possession of the user at the time of pesticide application. 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.

Do not use this product on any crop on Long Island, New York. Do not apply this product by air.

## 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 annual 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,
- chemical-resistant gloves,
- chemical-resistant footwear plus socks,
- protective eye wear,
- 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.

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## STORAGE AND DISPOSAL

### Storage

Store pesticide products in a secure locked area where children, unauthorized persons and animals cannot enter. Do not store in the same area with food or feed. Do not store opened containers.

### Prohibitions

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

### Pesticide Disposal

Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate 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.

### General

Consult Federal, State or local disposal authorities for approved alternative procedures such as limited open burning.

## DISCLAIMER

The label instructions for the use of this product reflect the opinion of experts based on research and field use. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with 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 use of, or application of the product contrary to label instructions, all of which are beyond the control of American Cyanamid Company. All such risks shall be assumed by the user.

American Cyanamid Company shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on this label. User assumes all risks associated with the use of this product in any manner not specifically set forth on this label.

American Cyanamid Company warrants only that the material contained herein conforms to the chemical description on the label and is reasonably fit for the use therein described when used in accordance with the directions for use, subject to the risk referred to above. **CYANAMID DOES NOT MAKE OR AUTHORIZE ANY AGENT OR REPRESENTATIVE TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED AND EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE.**

**BUYER'S EXCLUSIVE REMEDY AND AMERICAN CYANAMID COMPANY'S LIABILITY, WHETHER IN CONTRACT, TORT, NEGLIGENCE, STRICT LIABILITY OR OTHERWISE, SHALL BE LIMITED TO REPAYMENT OF THE PURCHASE PRICE OF THIMET 20-G.** In no case shall Cyanamid or the seller be liable for consequential, special or indirect damages resulting from the use or handling of this product.

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**BEFORE USING, READ PRECAUTIONARY STATEMENTS.**

**THIMET 20-G** should be applied with a granular pesticide applicator properly calibrated to assure accurate placement and proper dosage. Cover granules that may be exposed on the ends of the treated rows and turns and loading areas by deep discing immediately after treating fields.

**CROPS**

Crop	Pests Controlled	Rate of THIMET 20-G	Application	Remarks
<b>BEANS</b>  At Planting	Mexican bean beetles	4.9-9.4 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 10.2 lb/A	Drill granules to the side of the seed.	Do not place THIMET 20-G granules in direct contact with seed.  Do not graze or feed treated hay or forage to livestock.  Do not apply later than 60 days before harvest.
	Leafhoppers Aphids Lygus bugs Thrips Mites Seedcorn maggots	4.5-7.0 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 7.6 lb/A		
	Seedcorn maggots		Apply granules in a band over the row.	

**FIELD CORN  
AND SWEET  
CORN  
(excluding  
popcorn)  
  
At Planting**

Corn rootworms  
Wireworms  
White grubs  
Seedcorn maggots  
Seedcorn beetles  
Flea beetles  
Mites

6 oz per 1,000 ft of  
row for any row  
spacing (30-inch  
minimum) or no more  
than 6.5 lb/A

Place granules in a  
7-inch band over the  
row directly behind  
the planter shoe in  
front of or behind  
the press wheel and  
lightly incorporate.

Do not use in-furrow  
application.  
  
For field corn:  
Accent\* herbicide and  
Beacon\*\* herbicide  
may be applied after  
**BANDED**  
applications of  
**THIMET 20-G.**

Refer to the Accent  
and Beacon labels for  
pertinent use  
directions and  
precautions.

Apply only one at  
planting, or at  
cultivation treatment  
of THIMET 20G per  
season.

**FIELD CORN  
AND SWEET  
CORN  
(excluding  
popcorn)  
  
At Cultivation**

Corn Rootworms

Apply granules to  
base of plants just  
ahead of cultivation  
shovels so as to  
cover granules with  
soil.

Do not harvest within  
30 days of last  
treatment.

Apply only one at  
planting, or at  
cultivation treatment  
of THIMET 20G per  
season.

<b>FIELD CORN</b> (excluding sweet and popcorn)	Chinch bug nymphs (Arkansas, Colorado, Kansas, Louisiana, Mississippi, Nebraska, Oklahoma, Tennessee, Texas)	Apply granules to base of plants just ahead of cultivation shovels so as to cover granules with soil. Apply as soon as chinch bug nymphs are observed at base of plant. Granules must be placed at the infested region of the plants and adequately covered with soil.	Later infestations of chinch bugs may not be controlled.  Do not harvest, graze, or cut forage within 30 days of last treatment. Apply only one at planting or at cultivation treatment of THIMET 20G per season.
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<b>COTTON</b> At Planting	Early season control of: Thrips Leafminers	3.0 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 3.3 lb/A	Distribute the granules evenly in the furrow at planting time. Soil temperature, moisture and tilth 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.  If seeds and THIMET are hill-dropped, THIMET rates may be reduced by one-half (to 1.5 lb THIMET 20G per acre).  Do not graze or feed treated hay or forage to livestock.  Crop injury may occur if applications of diuron containing herbicides such as Karmex* or Direx*** are made in conjunction with soil-applied organo-phosphate pesticides.
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**COTTON**

**At Planting**

Mites  
Thrips  
Aphids  
Black cutworms  
Leafhoppers  
Whiteflies  
Leafminers

6.0-9.0 oz per 1,000 ft  
of row spacing  
(36-inch minimum) or  
no more than 8.2 lb/A  
  
6.0-7.5 oz per 1,000 ft  
of row for 30-inch row  
spacing or no more  
than 8.2 lb/A

Distribute the  
granules evenly in  
the furrow at  
planting time. Soil  
temperature,  
moisture and tilth  
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  
soils. Do not graze or  
feed treated hay or  
forage to livestock.

Crop injury may occur  
if applications of  
diuron containing  
herbicides such as  
Karmex or Direx are  
made in conjunction  
with soil-applied  
organophosphate  
pesticides.

Apply only one at  
planting or side-  
dressing treatment of  
THIMET 20G per  
season.

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**COTTON**  
**Side-Dressing**  
**(Irrigated**  
**Cotton Only)**

Mites from spring  
to early summer

9.0-12.0 oz per  
1,000 ft of row for any  
row spacing (36-inch  
minimum) or no more  
than 10.9 lb/A

9.0-10.0 oz per  
1,000 ft of row for  
30-inch row spacing  
or no more than  
10.9 lb/A

Incorporate  
granules into the  
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 graze  
or feed treated hay or  
forage to livestock.

Apply only one at  
planting or side-  
dressing treatment of  
THIMET 20G per  
season.

Crop injury may occur  
if applications of  
diuron containing  
herbicides such as  
Karmex or Direx are  
made in conjunction  
with soil-applied  
organophosphate  
pesticides.

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<p><b>PEANUTS</b>  <b>At Planting</b></p>	<p>Thrips Leafhoppers</p>	<p>5.5 oz per 1,000 ft of row for any row spacing (24-inch minimum) or no more than 7.5 lb/A</p>	<p>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.</p>	<p>Do not graze or feed treated hay or forage to livestock.</p> <p>Wait 90 days after treatment before harvesting peanuts.</p> <p>Apply only one at planting or at pegging treatment of THIMET 20G per season.</p>
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<p><b>PEANUTS</b>  <b>At Pegging</b></p>	<p>Southern corn rootworms Leafhoppers Wireworms</p>	<p>11.0 oz per 1,000 ft of row for any row spacing (24-inch minimum) or no more than 15 lb/A</p>	<p>Distribute the granules as a band over the fruiting zone at pegging time. Work into the top few inches of soil immediately.</p>	<p>Do not graze or feed treated hay or forage to livestock.</p> <p>Wait 90 days after treatment before harvesting peanuts.</p> <p>Apply only one at planting or at pegging treatment of THIMET 20G per season.</p>
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<p><b>POTATOES</b>  <b>At Planting</b></p>	<p>Aphids Leafhoppers Leafminers Psyllids Wireworms Flea beetle larvae and reduction of flea beetle adults.</p>	<p>Light or Sandy Soils: 11.3 oz per 1,000 ft of row for any row spacing (32-inch minimum) or no more than 11.5 lb/A</p> <p>Heavy or Clay Soils: 17.3 oz per 1,000 ft of row for any row spacing (32-inch minimum) or no more than 17.7 lb/A</p>	<p>Distribute the granules evenly in the furrow or band on each side of the row.</p>	<p>Wait 90 days after treatment before harvesting potatoes.</p>
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Colorado potato beetle (early season control)	Heavy or Clay Soils: 17.3 oz per 1,000 ft of row for any row spacing (32-inch minimum) or no more than 17.7 lb/A	Do not use for Colorado potato beetle control on the DelMarva Peninsula.
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<b>POTATOES</b>  <b>Post Emergence</b>	Aphids Leafhoppers Wireworms Colorado potato beetle (early season only)	Light or Sandy Soils: 11.3 oz per 1,000 ft of row for any row spacing (32-inch minimum).  Do not use on heavy soils.	For postemergence treatment: Place granules on each side of the row at the level of the seed pieces before covering at hilling. Apply 4 to 6 weeks after planting.	Wait 90 days after treatment before harvesting potatoes.  DO NOT apply THIMET 20-G as a sidedress treatment if THIMET 20-G has been applied at planting time.  Do not use for Colorado potato beetle control on the DelMarva Peninsula.
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<b>SORGHUM</b>  <b>At Planting</b>	Greenbugs	6.0 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 6.5 lb/A.	Place granules in a 7-inch band over the row OR drill 1 inch below and 2 inches to the side of the seed.	Do not place THIMET 20-G granules in direct contact with seed. Apply only one at planting or at cultivation treatment of THIMET 20G per season.
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**SORGHUM** Chinch bug nymphs  
**At Cultivation** (Colorado, Kansas, Nebraska)

Apply granules to base of plants just ahead of cultivation shovels so as to cover granules with soil. Apply as soon as chinch bug nymphs are observed at base of plants. Granules must be placed at the infested region of the plants and adequately covered with soil.

Later infestation of chinch bugs may not be controlled.  
 Do not feed foliage before grain harvest.  
 Do not apply within 30 days of harvest.  
 Apply only one at planting or at cultivation treatment of THIMET 20G per season.

**SOYBEANS** For early season control of:  
**At Planting** Mexican bean beetles  
 Leaf Hoppers  
 Lygus bugs  
 Seedcorn maggots  
 Thrips  
 Aphids  
 Mites  
 \_\_\_\_\_  
 Seedcorn maggots

9.0 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 9.8 lb/a

Drill granules to the side of the seed.  
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 Place granules in a 7-inch band over the row directly behind the planter shoe and in front of the press wheel.

Do not place THIMET 20-G granules in direct contact with seed. Do not feed the foliage of treated soybeans. Crop injury may result when preplant incorporated or preemergence applications of metribuzin herbicides are used in conjunction with this product or other soil-applied organo-phosphate pesticides.

<b>SUGAR BEETS</b>	Aphids Beet root maggots Leafhoppers Mites Leafminers	4.5 oz per 1,000 ft of row for any row spacing (20-inch minimum) or no more than 7.4 lb/A	Drill granules to side of the seed OR place granules in a band over the seed.	Do not place THIMET 20-G granules in direct contact with the seed.  Do not apply within 30 days of harvest  Apply only one at planting or postemergence treatment of THIMET 20G per season.
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<b>SUGAR BEETS</b>	Mites Aphids Beet root maggots	4.9-7.5 lb per acre	Apply postemergence when plants are dry. Use the higher rate on dense foliage for good coverage. Incorporate granules into the soil with a cultivator, rotary hoe or other suitable equipment.	Apply only one at planting or postemergence treatment of THIMET 20G per season.  Do not apply within 30 days of harvest.  Do not broadcast.  Consult your state experiment station or state extension service for proper timing of application in your area.
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<b>SUGAR CANE (Florida)</b>	Wireworms	19.5 lb per acre	Apply in a 10-12 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.
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\* Accent and Karmex are a registered trademark of E.I. duPont deNemours and Company  
 \*\* Beacon is a registered trademark of Novartis.  
 \*\*\* Direx is a registered trademark of Griffin Ag Products Co., Inc.

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**USE RATES AS POUNDS PER ACRE**

Application Rate (ounces per 1,000 Ft of Row)

	<u>1.2</u>	<u>3.0</u>	<u>4.5</u>	<u>4.9</u>	<u>5.5</u>	<u>6.0</u>	<u>7.0</u>	<u>7.5</u>	<u>9.0</u>	<u>9.4</u>	<u>10.0</u>	<u>11.0</u>	<u>11.3</u>	<u>12.0</u>	<u>17.3</u>
40"		2.5	3.7	4.0	4.5	4.9	5.7	6.1	7.4	7.7	8.2	9.0	9.2	9.8	14.1
38"		2.6	3.9	4.2	4.7	5.2	6.0	6.4	7.7	8.1	8.6	9.5	9.7	10.3	14.9
36"		2.7	4.1	4.4	5.0	5.4	6.4	6.8	8.2	8.5	9.1	10.0	10.3	10.9	15.7
34"		2.9	4.3	4.7	5.3	5.8	6.7	7.2	8.6	9.0	9.6	10.6	10.9	11.5	16.6
32"		3.1	4.6	5.0	5.6	6.1	7.1	7.7	9.2	9.6	10.2	11.2	11.5	12.3	17.7
30"		3.3	4.9	5.3	6.0	6.5	7.6	8.2	9.8	10.2	10.9	12.0	12.3	13.1	
26"		3.8	5.7	6.2	6.9	7.5	8.8	9.4	11.3	11.8	12.6	13.8	14.2		
24"		4.1	6.1	6.7	7.5	8.2	9.5	10.2	12.3	12.8	13.6	15.0			
22"		4.5	6.7	7.3											
20"	2.0	4.9	7.4												
16"	2.5														
12"	3.3														
8"	4.9														

To determine other use rates, in pounds per acre:

Take desired rate (ounces) and divide by 1,000 ft of row, divide by 16 oz/lb, divide by row width in feet, multiply by 43,560 ft<sup>2</sup>/A = lb/A.

**Example for 10 oz in 1,000 ft of row, 36 inch row width (3 ft):**

$$\frac{(10 \text{ oz}) (43,560 \text{ ft}^2/\text{A})}{(1,000 \text{ ft row}) (16 \text{ oz/lb}) (3 \text{ ft row width})} = 9.075 \text{ lb/A}$$

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## CALIBRATION INFORMATION

### FIRST READ THE LABEL

It is important that applicator equipment be properly set to deliver the labeled rate. The table below contains suggested starting gauge settings for calibration at planting speeds of 5 or 7 mph and application rates of 4.5, 6.0 or 9.0 oz. per 1,000 ft of row.

**NOTE:** The settings in this table **SHOULD ONLY BE USED AS STARTING POINTS**. Continually check the amount of THIMET 20-G used against a known length of row and make further adjustments accordingly. Also check calibration occasionally to make sure equipment wear, changing moisture conditions, etc. have not caused a change in flow rate.

### SUGGESTED GRANULAR APPLICATOR SETTING<sup>1</sup>

Applicator	Planter Speed 5 mph			Planter Speed 7 mph		
	4.5 oz.	6.0 oz.	9.0 oz.	4.5 oz.	6.0 oz.	9.0 oz.
John Deere MaxEmerge 2	14	17	23	17	21	33
John Deere Max-Emerge 2 with Chemizer Rotors	15	18	26	19	24	36
John Deere Max-Emerge (Odd Notches 5-15-25-35)	9	11	14	11	13	17
John Deere Max-Emerge (Even Notches 0-10-20-30)	9	13	20	13	19	26
John Deere 71 Flexi-Planter (John Deere Metal Hoppers)	1/23	1/26	2/3	1/26	1/32	2/14
New International Harvester (2 gauges hopper)	1/9	2/2	2/6	2/2	2/5	3/3
Old International Harvester (1 gauge hopper)	1/6	1/8	2/3	1/9	2/2	2/9
New Gandy	15	18	22	18	21	25
New Noble	6	8	11	8	11	14
Old Noble	8	11	16	12	15	22
Allis Chalmers (78 and 79 Series)	4	5	7	4	5	7
Allis Chalmers #385	10	11	14	11	13	18
White 6000	9	12	16	12	16	19
Kinze (even 0-10-20-30)	6	9	13	9	12	17

<sup>1</sup> Suggested starting point only.