

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



OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

NOV 22 2011

Joy Paff  
Regulatory Specialist  
AMVAC  
4695 MacArthur Court, Suite 1250  
Newport Beach, CA 92660

Subject: Thimet 20-G  
EPA Reg. No. 5481-530  
Notification Application Dated October 27, 2011  
Adding an Alternate Brand name, removing web address and updating Storage  
and Disposal Instructions

Dear Ms. Paff:

The Agency has received your Application for Pesticide Notification under Pesticide Registration Notices (PRN) 2007-4 and 98-10, dated October 27, 2011 for the product Thimet 20-G, EPA Reg. No. 5481-530. The Registration Division (RD) has reviewed this request and finds that the actions requested fall within the scopes of PR Notices 2007-4 and 98-10. The label submitted with the application has been stamped "Notification" and will be placed in our records.

If you have any questions, please call me directly at (703) 308-8043 or email [lewis.marianne@epa.gov](mailto:lewis.marianne@epa.gov)

Sincerely,

Marianne Lewis  
Insecticide-Rodenticide Branch  
Registration Division (7505P)  
Office of Pesticide Programs



Registration  
 Amendment  
 Other

OPP Identifier Number

**Application for Pesticide - Section I**

1. Company/Product Number 5481-530	2. EPA Product Manager	3. Proposed Classification <input type="checkbox"/> None <input checked="" type="checkbox"/> Restricted
4. Company/Product (Name) Thimet 20G	PM#	
5. Name and Address of Applicant (Include Zip Code)  Amvac Chemical Corporation 4695 MacArthur Court, Suite 1250 Newport Beach, CA 92660 <input type="checkbox"/> Check if this is a new address	6. Expedited Review. In accordance with FIFRA Section 3(c)(3)(b)(i), my product is similar or identical in composition and labeling to:  EPA Reg. No. _____  Product Name _____	

**Section - II**

Amendment - Explain below  Final printed labels in response to Agency letter dated \_\_\_\_\_

Resubmission in response to Agency letter dated \_\_\_\_\_  "Me Too" Application

Notification - Explain below  Other - Explain below

Explanation: Use additional page(s) if necessary. (For Section I and Section II.) Notification of minor Label revisions.  
 Notification of label change per PR Notice 2007-4. This notification is consistent with the guidance in PR Notice 2007-4 and the requirements of EPA's regulations at 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156. No other changes have been made to the labeling or the Confidential Statement of Formula for this product. I understand that it is a violation of 18 U.S.C. Sec. 1001 to willfully make any false statement to EPA. I further understand that if the amended label is not consistent with the requirements of 40 CFR §§ 156.10, 156.140, 156.144, 156.146, and 156.156, this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA. The Limited Warranty Statements has also been updated.

**Section - III**

1. Material This Product Will Be Packaged In:

Child-Resistant Packaging <input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	2. Type of Container <input type="checkbox"/> Metal <input type="checkbox"/> Plastic <input type="checkbox"/> Glass <input checked="" type="checkbox"/> Paper <input type="checkbox"/> Other (Specify) _____
* Certification must be submitted		If "Yes" Unit Packaging wt. No. per container	If "Yes" Package wt. No. per container

3. Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container	4. Size(s) Retail Container 40 lb Carton (Bag in a Box)	5. Location of Label Directions <input checked="" type="checkbox"/> On Label <input type="checkbox"/> On Labeling accompanying product
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6. Manner in Which Label is Affixed to Product  
 Lithographed  Stenciled  
 Paper glued  Other \_\_\_\_\_

**Section - IV**

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)

Name Joy Paff	Title Regulatory Specialist	Telephone No. (Include Area Code) (949) 221-6123
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**Certification**  
 I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete.  
 I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature 	3. Title Regulatory Specialist	8. Date Application Received (Stamped)
4. Typed Name Joy Paff	5. Date October 27, 2011	



October 27, 2011

Ms. Sherada Hobgood  
Document Processing Desk  
Office of Pesticide Programs (Notif)  
U.S. Environmental Protection Agency  
One Potomac Yard  
2777 S. Crystal Drive  
Arlington, VA 22202

**Subject: Notification of Minor Label Revisions and Storage and Disposal Statements per PR Notice 2007-4**  
Thimet 20G (EPA Reg. No. 5481-530)

Dear Sherada:

Please find enclosed the notification to revise labeling for the above listed product. We have revised the label to include an Alternate Brand Name, remove the web address and to update the Storage and Disposal Statement.

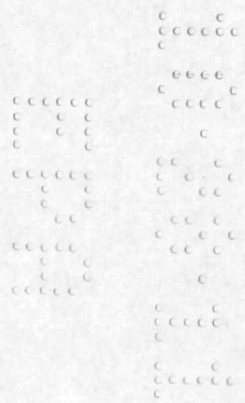
In support of this request, enclosed please find the following:

- 1. Application for Pesticide Registration (EPA Form 8570-1).
- 2. ~~Three~~ <sup>Five</sup> copies of the label (Ref. No. 530-20111027r9).
- 3. One copy label with changes highlighted.

It is my understanding that this satisfies the requirements of the Agency's PR Notice. If you have any questions or require additional information, please do not hesitate to contact me at 949-221-6123 or email [joyp@amvac-chemical.com](mailto:joyp@amvac-chemical.com). Thank you for your attention to this matter.

Best regards,

Joy Paff  
Regulatory Specialist



4/17

**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.

**THIMET® 20-G**

**SOIL AND SYSTEMIC INSECTICIDE**

*Alternate Wording when packaged in LOCK 'N LOAD: LOCK 'N LOAD® CLOSED LOADING SYSTEM*

*Alternate Wording when packaged in SMARTBOX: SMARTBOX® CLOSED LOADING SYSTEM*

*Alternate Wording when packaged in EZ LOAD: EZ LOAD® CLOSED LOADING SYSTEM*

<b>ACTIVE INGREDIENT:</b>	<b>By Weight</b>
Phorate: 0,0-diethyl S-[(ethylthio) methyl] phosphorodithioate.....	20.0%
<b>INERT INGREDIENTS:</b> .....	<b>80.0%</b>
<b>TOTAL</b>	<b>100.0%</b>

EPA Reg. No.: 5481-530

EPA Est. No. \_\_\_\_\_

**KEEP OUT OF REACH OF CHILDREN**

**NOTIFICATION**

**☠ DANGER/POISON/PELIGRO ☠**

**NOV 22 2011**

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.)

<b>FIRST AID</b>	
<b>Contains an organophosphate that inhibits cholinesterase.</b>	
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have a person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>Antidote:</b>	<ul style="list-style-type: none"> <li>• Atropine is an antidote.</li> </ul>

**EMERGENCY INFORMATION**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:

Transportation: CHEMTREC..... 1-800-424-9300

Other: AMVAC..... 1-323-264-3910

**NOTE TO PHYSICIAN**

Warning symptoms include weakness, headache, tightness in chest, blurred vision, nonreactive pinpoint pupils, salivation, nausea, vomiting, diarrhea, and abdominal cramps. Give atropine intramuscularly or intravenously, depending on severity of poisoning. 2 to 4 milligrams 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 for at least 48 hours. Allow no further exposure to any cholinesterase inhibitor until cholinesterase regeneration has taken place as determined by blood tests. Probable mucosal damage may contraindicate the use of gastric lavage.

Pralidoxime chloride (2-PAM; PROTOPAM chloride) may be effective as an adjunct to atropine. Use according to label directions.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

**Net Contents:**

As Marked on Container



4100 E. Washington Blvd.

Los Angeles, CA 90023 U.S.A

1-323-264-3910 [www.amvac-chemical.com](http://www.amvac-chemical.com)

**PRECAUTIONARY STATEMENTS**

**DANGER**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

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

Corrosive. Causes irreversible eye damage.

**Do Not Breathe Dust.**

**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 Information Center for recommendations regarding such blood tests, poisoning management, and other information regarding the toxicity of phorate. The toll free number for the National Pesticide Information Center 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)**

Some materials that are chemical-resistant to this product are those made of waterproof material. If you want more options, follow the instructions for Category A on an EPA chemical resistance category selection chart.

Loaders, applicators and other handlers using engineering controls must wear:

- Long sleeved shirt and long pants
- Shoes plus socks

In addition, loaders must wear:

- Chemical-resistant gloves (such as those made of waterproof material)

See Engineering Controls for additional requirements.

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, 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.

IMPORTANT: All other handlers performing tasks such as spill clean up or equipment cleaning, for which engineering controls are not feasible must wear:

- Coveralls over long sleeved shirt and long pants
- Chemical resistant footwear plus socks
- Chemical resistant gloves
- Protective eyewear,
- A NIOSH approved dust/mist filtering respirator with a MSHA/NIOSH approval number prefix TC-21C or a NIOSH approved respirator with any N, R, P or HE filter, and
- Chemical resistant apron if exposed to the concentrate.

### USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE 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.

Failure to follow precautions including wearing proper Personal Protective Equipment may result in serious or even life threatening poisoning requiring immediate medical attention. The active ingredient in this granular formulation can be absorbed through skin to cause poisoning.

### ENGINEERING CONTROLS

This product is formulated into Lock 'N Load Alternate Wording when packaged in SMARTBOX: SMARTBOX, Alternate Wording when packaged in EZ LOAD: EZ LOAD an enclosed system that meets the definition of a closed loading system as defined by the Worker Protection Standard for Agricultural Pesticides [40 CFR 170.240(d)(4)]. In addition to wearing the required PPE for handlers using engineering controls, loaders must be provided and must have immediately available for use and must wear if a broken package, spill or equipment breakdown occurs:

- protective eyewear,
- chemical-resistant apron,
- chemical-resistant footwear, and
- NIOSH-approved dust/mist filtering respirator with MSHA/NIOSH approval number prefix TC-21C or a NIOSH approved respirator with any N, R, P, or HE filter.

Applicators must use an enclosed cab that meets the definition in the Worker Protection Standard for Agricultural Pesticides for dermal protection. In addition the applicator:

- Must wear PPE required for handlers using engineering controls Must either use an enclosed cab that also provides equivalent respiratory protection to a dust/mist filtering respirator or wear a NIOSH-approved dust/mist filtering respirator with MSHA/NIOSH approval number prefix TC-21-C or a NIOSH approved respirator with any N, R, P, or HE filter
- Must be provided and must have immediately available for use and must wear if they must exit the cab in the treated area: protective eyewear, coveralls, chemical-resistant gloves, chemical-resistant footwear, and, if using an enclosed cab that provides respiratory protection, a NIOSH-approved dust/mist filtering respirator with MSHA/NIOSH approval number prefix TC-21-C or a NIOSH approved respirator with any N, R, P, or HE filter
- Take off any PPE that was worn in the treatment area before reentering the cab, and
- Store all such PPE in a chemical resistant container, such as a plastic bag, to prevent contamination of the inside of the cab.

**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.

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**DIRECTIONS FOR USE**

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

Use Best Management Practices (BMPs) for minimizing surface runoff in the following areas:

- Poorly drained or wet soils with readily visible slopes toward adjacent surface water
- 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

When used on erodible soils, BMPs for minimizing runoff should be followed. Consult your local soil conservation service for recommendations in your use area.

In particular, where highly erodible land (HEL) is adjacent to aquatic bodies, leave a 66 foot buffer/setback area in grass or other natural vegetation.

**Restrictions:**

- Do not use this product on any crop on Long Island, New York. Do not apply this product by air.
- Do not apply more than one application of **Thimet 20-G** per crop per season.
- Do not apply this product to saturated soils. Do not apply in wet soil conditions that may prevent the equipment from covering pesticide granules. Do not apply while precipitation conducive to runoff is occurring or while conditions favor runoff from the treated area. Do not apply when forecasted precipitation event favors runoff from treated area.

Under some conditions phorate may have a high potential for runoff into surface water for several days following application. Do not apply in the following areas:

- Frequently flooded areas
- Areas where intense or sustained rainfall is forecast to occur within 48 hours

Do not apply within 50 feet of any drinking water well to minimize potential contamination.

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

*Alternate Wording when packaged in SMARTBOX: Please refer to the SMARTBOX operator's manual for detailed information on system operation and calibration procedures.*

### 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, such as those made of waterproof material
- Chemical-resistant footwear plus socks
- Protective eyewear

Notify workers of application by warning them orally and by posting warning signs at entrances to treated areas.

### BEFORE USING, READ PRECAUTIONARY STATEMENTS

Apply **Thimet 20-G** 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	Pests Controlled	Rate of Thimet 20-G	Application	Use Directions
<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.  Granules must be incorporated into the soil.	Use the high rate under heavy pest pressure.  Restrictions: Do not place <b>THIMET 20-G</b> 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		Do not apply more than one application of <b>THIMET 20-G</b> per crop season.
	Seedcorn maggots		Apply granules in a band over the row and lightly incorporate into the soil using tines or a light drag chain.	

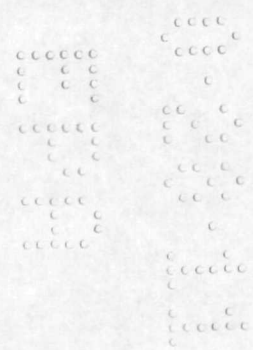


Crops	Pests Controlled	Rate of Thimet 20-G	Application	Use Directions
			Granules must be incorporated into the soil.	
<b>FIELD CORN AND SWEET CORN (excluding popcorn)</b>  <b>At Planting</b>	Corn rootworms Wireworms White grubs Seedcorn maggots Seedcorn beetles Flea beetles Mites	4.5-6.0 oz per 1,000 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 directly behind the planter shoe in front of or behind the press wheel and lightly incorporate.  Granules must be incorporated into the soil.	Use the high rate under heavy pest pressure.  For field corn: Accent® herbicide and Beacon® herbicide may be applied after BANDED applications of <b>THIMET 20-G</b> .  Refer to the Accent and Beacon labels for pertinent use directions and precautions.  Restrictions: Do not apply more than one application of <b>THIMET 20-G</b> per crop per season.  Do not use in furrow application.
<b>FIELD CORN AND SWEET CORN (excluding popcorn)</b>  <b>At Cultivation</b>	Corn rootworms		Apply granules to base of plants just ahead of cultivation shovels so as to cover granules with soil.  Granules must be incorporated into the soil.	Restrictions: Do not harvest, graze, or cut forage within 30 days of last treatment.  Do not apply more than one application of <b>THIMET 20-G</b> per crop per season.
<b>FIELD CORN (excluding sweet corn and popcorn)</b>  <b>At Cultivation</b>	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.  Granules must be incorporated into the soil.	Later infestations of chinch bugs may not be controlled.  Use the high rate under heavy pest pressure.  Restrictions: Do not harvest, graze, or cut forage within 30 days of last treatment.  Do not apply more than one application of <b>THIMET 20-G</b> per crop per season.
<b>COTTON</b>	Early season control	2.5-3.0 oz per 1,000 ft	Distribute the	Suggested for areas

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Use Directions
<p><b>At Planting</b></p>	<p>of: Thrips Leafminers</p>	<p>of row for any spacing (30-inch minimum) or no more than 3.3 lb/A</p>	<p>granules evenly in the furrow at planting time. Soil temperature, moisture and tilth should be favorable for good germination and emergence.</p> <p>Granules must be incorporated into the soil.</p>	<p>where limited period of protection against early season pests is necessary for good cotton growth.</p> <p>If seeds and <b>THIMET 20-G</b> are hill-dropped, <b>THIMET 20-G</b> rates may be reduced by one-half (to 1.6 lb <b>THIMET 20-G</b> per acre).</p> <p>Crop injury may occur if applications of diuron-containing herbicides such as Karmex<sup>®</sup> herbicide or Direx<sup>®</sup> herbicide are made in conjunction with soil-applied organo-phosphate pesticides.</p> <p>Use the high rate under heavy pest pressure</p> <p>Restrictions: Do not graze or feed treated hay or forage to livestock.</p> <p>Do not apply more than one application of <b>THIMET 20-G</b> per crop season.</p>
<p><b>COTTON</b> <b>At Planting</b></p>	<p>Mites Thrips Aphids Black cutworms Leafhoppers Whiteflies Leafminers</p>	<p>6.0-9.0 oz per 1,000 ft of row for any row spacing (36-inch minimum) or no more than 8.2 lb/A</p> <p>6.0-7.5 oz per 1,000 ft of row for 30-inch row spacing or no more than 8.2 lb/A</p>	<p>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.</p> <p>Granules must be incorporated into the soil.</p>	<p>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.</p> <p>Crop injury may occur if applications of diuron-containing herbicides such as Karmex and Direx are made in conjunction with soil-applied organophosphate pesticides.</p> <p>Use the high rate under heavy pest pressure.</p> <p>Restriction:</p>

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Use Directions
				Do not apply more than one application of <b>THIMET 20-G</b> per crop season.
<p><b>COTTON</b></p> <p><b>Side-Dressing (Irrigated Cotton in Arizona and California Only)</b></p>	Mites from spring to early summer	<p>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</p> <p>7.5-10.0 oz per 1,000 ft of row for 30-inch row spacing or no more than 10.9 lb/A</p>	<p>Incorporate granules into the soil as a side-dress application deep enough to avoid disturbance by future cultivations.</p> <p>Granules must be incorporated into the soil.</p>	<p>Irrigate as soon as possible after treatment.</p> <p>Crop injury may occur if applications of diuron-containing herbicides such as Karmex<sup>®</sup> herbicide or Direx<sup>®</sup> herbicide are made in conjunction with soil-applied organophosphate pesticides.</p> <p>Use the high rate under heavy pest pressure.</p> <p>Restrictions: Do not apply more than one application of <b>THIMET 20-G</b> per crop season.</p> <p>Do not apply later than 60 days before harvest.</p> <p>Do not graze or feed treated hay or forage to livestock.</p>
<p><b>PEANUTS</b></p> <p><b>At Planting</b></p>	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	<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>Granules must be incorporated into the soil.</p>	<p>Restrictions: Do not apply within 90 days of harvest.</p> <p>Do not apply more than one application of <b>THIMET 20-G</b> per crop season.</p> <p>Do not graze or feed treated hay or forage to livestock.</p> <p>Use on peanuts at pegging is prohibited.</p>

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Use Directions
<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: 8.5-11.3 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: 13.0-17.3 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 and incorporate.</p> <p>Granules must be incorporated into the soil.</p>	<p>Use the high rate under heavy pest pressure.</p> <p>Restrictions: Do not apply within 90 days of harvest.</p>
	<p>Colorado potato beetle (early season control)</p>	<p>Heavy or Clay Soils: 13.0-17.3 oz per 1,000 ft of row for any row spacing (32-inch minimum) or no more than 17.7 lb/A</p>		<p>Use the high rate under heavy pest pressure.</p> <p>Restrictions: Do not apply within 90 days of harvest.</p> <p>Do not use for Colorado potato beetle control on the DelMarVa Peninsula.</p> <p>Do not apply more than one application of <b>THIMET 20-G</b> per crop season.</p>
<p><b>POTATOES</b>  <b>Postemergence</b></p>	<p>Aphids Leafhoppers Colorado potato beetle (early season only) Wireworms (suppression only)</p>	<p>Light or Sandy Soils: 8.5 – 11.3 oz per 1,000 ft of row for any row spacing (32-inch minimum)</p> <p>Do not use on heavy soils.</p>	<p>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.</p> <p>Granules must be incorporated into the soil.</p>	<p>Use the high rate under heavy pest pressure.</p> <p>Restrictions: Do not apply within 90 days of harvest.</p> <p>Do not use for Colorado potato beetle control on the DelMarVa Peninsula.</p> <p>Do not apply more than one application of <b>THIMET 20-G®</b> per crop season.</p>



Crops	Pests Controlled	Rate of Thimet 20-G	Application	Use Directions
<p><b>SORGHUM</b></p> <p><b>At Planting</b></p>	<p>Greenbugs</p>	<p>4.5 – 6.0 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 6.5 lb/A.</p>	<p>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.</p> <p>OR</p> <p>Drill 1 inch below and 2 inches to the side of the seed.</p>	<p>Use the high rate under heavy pest pressure.</p> <p>Restrictions: Do not place <b>THIMET 20-G</b> granules in direct contact with seed.</p> <p>Do not apply more than one application of <b>THIMET 20-G</b> per crop season.</p>
<p><b>SORGHUM</b></p> <p><b>At Cultivation</b></p>	<p>Chinch bug nymphs (Colorado, Kansas, Nebraska)</p>		<p>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.</p> <p>Granules must be incorporated into the soil.</p>	<p>Later infestation of chinch bugs may not be controlled.</p> <p>Use the high rate under heavy pest pressure.</p> <p>Restrictions: Do not feed foliage before grain harvest.</p> <p>Do not apply within 30 days of harvest.</p> <p>Do not graze within 30 days after application.</p> <p>Do not apply more than one application of <b>THIMET 20-G</b> per crop season.</p>
<p><b>SOYBEANS</b></p> <p><b>At Planting</b></p>	<p>For early season control of: Mexican bean beetles Leaf Hoppers Lygus bugs Seedcorn maggots Thrips Aphids Mites</p>	<p>9.0 oz per 1,000 ft of row for any row spacing (30-inch minimum) or no more than 9.8 lb/A</p>	<p>Drill granules to the side of the seed.</p> <p>Granules must be incorporated into the soil.</p>	<p>Crop injury may result when preplant incorporated or preemergence applications of metribuzin herbicides are used in conjunction with this product or other soil-applied organophosphate pesticides.</p> <p>Restrictions: Do not place <b>THIMET® 20-G</b> granules in direct</p>

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Use Directions
	Seedcorn maggots		<p>Place granules in a 7-inch band over the row directly behind the planter shoe and in front of the press wheel and lightly incorporate.</p> <p>Granules must be incorporated into the soil.</p>	<p>contact with seed.</p> <p>Do not feed the foliage of treated soybeans.</p> <p>Do not apply more than one application of <b>THIMET 20-G</b> per crop season.</p>
<p><b>SUGAR BEETS</b></p> <p><b>At Planting</b></p>	<p>Aphids Beet root maggots Leafhoppers Mites Leafminers</p>	<p>3.4 – 4.5 oz per 1,000 ft of row for any row spacing (20-inch minimum) or no more than 7.4 lb/A</p>	<p>Drill granules to side of the seed OR place granules in a band over the seed and lightly incorporate.</p> <p>Granules must be incorporated into the soil.</p>	<p>Use the high rate under heavy pest pressure.</p> <p>Restrictions: Do not place <b>THIMET 20-G</b> granules in direct contact with the seed.</p> <p>Do not apply within 30 days of harvest.</p> <p>Do not apply more than one application of <b>THIMET 20-G</b> per crop season.</p>
<p><b>SUGAR BEETS</b></p> <p><b>Postemergence</b></p>	<p>Mites Aphids Beet root maggots</p>	<p>4.9 – 7.5 lb per acre</p>	<p>Direct granules over the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe.</p> <p>Apply post-emergence when plants are dry.</p> <p>Granules must be incorporated into the soil.</p>	<p>Use the high rate under heavy pest pressure.</p> <p>Consult your state experiment station or state extension service for proper timing of application in your area.</p> <p>Restrictions: Do not apply within 30 days of harvest.</p> <p>Do not broadcast.</p> <p>Do not apply more than one application of <b>THIMET 20-G</b> per crop season.</p> <p>The feeding of sugar beet tops or silage to dairy cattle is prohibited.</p>

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Use Directions
SUGAR CANE  (Florida)	Wireworms	14.6 – 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 with soil.  Granules must be incorporated into the soil.	Use the high rate under heavy pest pressure.  Restrictions: Do not graze or feed treated hay or forage to livestock.  Do not apply more than one application of <b>THIMET 20-G</b> per crop season.

**USE RATES AS POUNDS PER ACRE**

APPLICATION RATE (ounces per 1,000 ft of row)															
	1.2	3.0	4.5	4.9	5.5	6.0	7.0	7.5	9.0	9.4	10.0	11.0	11.3	12.0	17.3
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):  
 $(10 \text{ oz})(43,560 \text{ ft}^2/\text{A}) \div (1,000 \text{ ft row})(16 \text{ oz/lb})(3 \text{ ft row width}) = 9.075 \text{ lb/A}$

**CALIBRATION INFORMATION**

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.

*Alternate Wording when packaged in SMARTBOX: Please refer to the SmartBox operator's manual for detailed information on system operation and calibration procedures.*

**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 Max-Emerge 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 (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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### STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

**PROHIBITIONS:** Open dumping is prohibited. Cover or incorporate spills.

**PESTICIDE 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.

**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.

Alternate Wording when packaged in LOCK 'N LOAD:

DO NOT DISCARD THE CONTAINER. Do not attempt to open or tamper with the container. Completely empty container into application equipment. Return empty container to point of purchase or call 1-888-GO-AMVAC for instructions. Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Alternate Wording when packaged in SMARTBOX:

DO NOT DISCARD THE CONTAINER. Do not attempt to open or tamper with the container. Completely empty container into application equipment. All SMARTBOX containers must be returned per instructions provided or by calling 1-888-SMARTBOX. Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Alternate Wording when packaged in EZ LOAD:

Non-refillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Dispose of empty bag in a sanitary landfill or by incineration.



**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

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