

5481-530

06-15-2009

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



JUN 15 2009

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

Julie Tran
AMVAC
4100 E. Washington Blvd.
Los Angeles, CA 90023

Dear Ms Tran:

Subject: Amendment in response to Agency letter dated February 9, 2009; revise restricted use statement
Thimet 20-G
EPA Registration No. 5481-530
Your Submissions Dated: March 2, 2009

The labeling referred to above submitted in connection with the Federal Insecticide, Fungicide and Rodenticide Act, is amended as acceptable provided you make the following changes:

- On page 4, revise the sentence "In particular, where highly erodible land (HEL) is adjacent bodies, a 66 foot buffer/setback area should be left in grass or other natural vegetation" to be definitive and read: "In particular, where highly erodible land (HEL) is adjacent bodies, leave a 66 foot buffer/setback area in grass or other natural vegetation."
- On page 4, move the following above the subtitle "Restrictions" as they are advisory statements:
 - "Use Best Management Practices" section.
 - "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 bodies, leave a 66 foot buffer/setback area in grass or other natural vegetation."
- On pages 5-11, revise the subtitle in each table that reads "Remarks" to read "Use Directions" since the information is mandatory.

- On page 8-9, for peanuts & potato sections, revise the statement "Wait 90 days after treatment before harvesting..." to read: "Do not apply within 90 days of harvest" and add these under the "Restrictions" sub-section.

A stamped copy of the labeling is enclosed for your records. Please submit one final printed copy of the labeling before releasing the product for shipment. If you have any questions regarding this label, please contact Autumn Metzger at (703) 305-5314 or metzger.autumn@epa.gov.

Sincerely,



Venus Eagle
Product Manager 01
Insecticide-Rodenticide Branch
Registration Division (7505P)

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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**

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

EPA Reg. No.: 5481-530

EPA Est. No. _____

KEEP OUT OF REACH OF CHILDREN



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.)

FIRST AID	
Contains an organophosphate that inhibits cholinesterase.	
If swallowed:	<ul style="list-style-type: none"> • Call a poison control center or doctor immediately for treatment advice. • Have a 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:	<ul style="list-style-type: none"> • Move person to fresh air. • If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. • Call a poison control center or doctor for further treatment advice.
If on skin or clothing:	<ul style="list-style-type: none"> • Take off contaminated clothing. • Rinse skin immediately with plenty of water for 15-20 minutes. • Call a poison control center or doctor for further treatment advice.
If in eyes:	<ul style="list-style-type: none"> • 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:	<ul style="list-style-type: none"> • Atropine is an antidote.

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

ACCEPTED
With COMMENTS
In EPA Letter Dated:

JUN 15 2009

Under the Federal Insecticide, Fungicide and Rodenticide Act, As amended, for the pesticide Registered under EPA Reg. No:

5481-530

530-20090511r6 THIMET 20G LnL SmartBox



4100 E. Washington Blvd.
Los Angeles, CA 90023 U.S.A
1-323-264-3910 • www.amvac-chemical.com

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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*, 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.

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 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.

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

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, a 66 foot buffer/setback area should be left in grass or other natural vegetation.

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	Remarks
BEANS 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. Granules must be incorporated into the soil.	Use the high rate under heavy pest pressure. Restrictions: Do not place THIMET 20-G granules in direct contact with seed. Do not graze or feed treated hay or forage to livestock.
	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 later than 60 days before harvest.
	Seedcorn maggots		Apply granules in a band over the row and lightly incorporate into the soil using tines or a light drag chain. Granules must be	Do not apply more than one application of THIMET 20-G per crop season.

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
			incorporated into the soil	
FIELD CORN AND SWEET CORN (excluding popcorn) At Planting	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 THIMET 20-G . Refer to the Accent and Beacon labels for pertinent use directions and precautions. Restrictions: Do not apply more than one application of THIMET 20-G per crop per season. Do not use in furrow application.
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. 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 THIMET 20-G per crop per season.
FIELD CORN (excluding sweet corn and popcorn) At Cultivation	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 THIMET 20-G per crop per season.
COTTON At Planting	Early season control of: Thrips Leafminers	2.5-3.0 oz per 1,000 ft of row for any 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 tillage should be	Suggested for areas where limited period of protection against early season pests is necessary for good cotton growth.

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Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
			<p>favorable for good germination and emergence.</p> <p>Granules must be incorporated into the soil.</p>	<p>If seeds and THIMET 20-G are hill-dropped, THIMET 20-G rates may be reduced by one-half (to 1.6 lb THIMET 20-G per acre).</p> <p>Crop injury may occur if applications of diuron-containing herbicides such as Karmex[®] herbicide or Direx[®] 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 THIMET 20-G per crop season.</p>
<p>COTTON At Planting</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: Do not apply more than one application of THIMET 20-G per crop season.</p>
<p>COTTON Side-Dressing (Irrigated Cotton)</p>	<p>Mites from spring to early summer</p>	<p>9.0-12.0 oz per 1,000 ft of row for any row spacing (36-inch minimum) or no more</p>	<p>Incorporate granules into the soil as a side-dress application deep enough to avoid</p>	<p>Irrigate as soon as possible after treatment.</p> <p>Crop injury may occur if</p>

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Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
<p>in Arizona and California Only)</p>		<p>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>disturbance by future cultivations.</p> <p>Granules must be incorporated into the soil.</p>	<p>applications of diuron-containing herbicides such as Karmex[®] herbicide or Direx[®] 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 THIMET 20-G 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>PEANUTS</p> <p>At Planting</p>	<p>Thrips</p> <p>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>Granules must be incorporated into the soil.</p>	<p>Wait 90 days after treatment before harvesting peanuts.</p> <p>Restrictions: Do not apply more than one application of THIMET 20-G 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>
<p>POTATOES</p> <p>At Planting</p>	<p>Aphids</p> <p>Leafhoppers</p> <p>Leafminers</p> <p>Psyllids</p> <p>Wireworms</p> <p>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>Wait 90 days after treatment before harvesting potatoes.</p> <p>Use the high rate under heavy pest pressure.</p>

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Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
	Colorado potato beetle (early season control)	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		Wait 90 days after treatment before harvesting potatoes. Use the high rate under heavy pest pressure. Restrictions: Do not use for Colorado potato beetle control on the DelMarVa Peninsula. Do not apply more than one application of THIMET 20-G per crop season.
POTATOES Postemergence	Aphids Leafhoppers Colorado potato beetle (early season only) Wireworms (suppression only)	Light or Sandy Soils: 8.5 – 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. Granules must be incorporated into the soil.	Wait 90 days after treatment before harvesting potatoes. Use the high rate under heavy pest pressure. Restrictions: Do not use for Colorado potato beetle control on the DelMarVa Peninsula. Do not apply more than one application of THIMET 20-G ® per crop season.
SORGHUM At Planting	Greenbugs	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. OR Drill 1 inch below and 2 inches to the side of the seed.	Use the high rate under heavy pest pressure. Restrictions: Do not place THIMET 20-G granules in direct contact with seed. Do not apply more than one application of THIMET 20-G per crop season.

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Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
SORGHUM At Cultivation	Chinch bug nymphs (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. Granules must be incorporated into the soil.	Later infestation of chinch bugs may not be controlled. Use the high rate under heavy pest pressure. Restrictions: Do not feed foliage before grain harvest. Do not apply within 30 days of harvest. Do not graze within 30 days after application. Do not apply more than one application of THIMET 20-G per crop season.
SOYBEANS At Planting	For early season control of: 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. Granules must be incorporated into the soil.	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. Restrictions: Do not place THIMET® 20-G granules in direct contact with seed. Do not feed the foliage of treated soybeans. Do not apply more than one application of THIMET 20-G per crop season.
	Seedcorn maggots		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. Granules must be incorporated into the soil.	
SUGAR BEETS At Planting	Aphids Beet root maggots Leafhoppers Mites Leafminers	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	Drill granules to side of the seed OR place granules in a band over the seed and lightly incorporate. Granules must be incorporated into the soil.	Use the high rate under heavy pest pressure. Restrictions: Do not place THIMET 20-G granules in direct contact with the seed. Do not apply within 30 days of harvest. Do not apply more than one application of

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
				THIMET 20-G per crop season.
SUGAR BEETS Postemergence	Mites Aphids Beet root maggots	4.9 – 7.5 lb per acre	Direct granules over the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe. Apply post-emergence when plants are dry. Granules must be incorporated into the soil.	Use the high rate under heavy pest pressure. Consult your state experiment station or state extension service for proper timing of application in your area. Restrictions: Do not apply within 30 days of harvest. Do not broadcast. Do not apply more than one application of THIMET 20-G per crop season. The feeding of sugar beet tops or silage to dairy cattle is prohibited.
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 THIMET 20-G 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															

14
15

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 ft²/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 SETTING¹

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 (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

¹Suggested Starting point only.

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:

CONTAINER DISPOSAL: Return empty container to point of purchase.

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

Alternate Wording when packaged in SMARTBOX:

CONTAINER RETURN: Do not discard the container. All SMARTBOX containers must be returned per instructions provided. Do not attempt to open or tamper with the container. Once empty, containers are not intended for reuse.

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.

THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE WARRANTED BY THIS LABEL. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.

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