

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

OFFICE OF PREVENTION, PESTICIDES AND TOXIC SUBSTANCES

OCT 5 2006

Mr. John C. Wood Director of Registrations Amvac Chemical Corporation 4695 MacArthur Court, Suite 1250 Newport Beach, CA 92660

Subject:

Thimet 20G

EPA Reg. No. 5481-530

Your Application of August 10, 2006

Dear Mr. Wood:

The labeling amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, As Amended (FIFRA), is acceptable as a registration amendment, provided that you submit two copies of your final printed label incorporating the following corrections before you release the product for shipment.

1. Correct the typo in the First Aid statement for the "if swallowed" statement from "Do no give " to "Do not give ".	
2. Correct the statement under engineering controls on page 3 from "loaders must be provided and must have immediately available for use in case ofread as cited below.	"" to
"loaders must be provided and must have immediately available for use and must wear if a broken package, spill or equipment breakdown occurs:".	

3. Correct the warranty and disclaimer statements so that they are consistent with the Agency policy regarding such statements. The current Label Review Manual (guidance document on the OPP website at http://www.epa.gov/oppfead1/labeling/lrm/) incorporates these policy statements.

The attachment contains examples of problematic warranty statements. The problematic portions of the label statements are stricken, and necessary language is added in red.

The attachment shows the addition of the phrase, "to the extent consistent with applicable law" to the disclaimers of liability and damages to avoid the statements being false or misleading. Some states or localities may not allow certain disclaimers of liability or damages; therefore, the user/buyer may have a remedy under other law governing warranties.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

A stamped copy of the label is enclosed for your records.

Acceptance of the label does not constitute reregistration of the subject product. Any issuance of reregistration for the product must await resolution of the application rate reduction issue.

You are advised that use of this product in certain portions of California, Oregon and Washington is subject to the January 22, 2004 Order for injunctive relief in Washington Toxics Coalition, et al. v. EPA, C01-0132C, (W.D. WA). For further information, please refer to the following EPA website: http://www.epa.gov/espp/wtc/uselimitation.htm

The Agency has completed the cumulative assessment for the organophosphate pesticides (OP)s and finalized the Interim Reregistration Eligibility Decisions (IREDs) for the OP pesticides. The assessment and supporting documents may be found on the Agency's web site at www.epa.gov/pesticides/cumulative and in the docket (EPA-HQ-OPP-2006-0618).

Sincerely,

Marilyn A. Mautz

**Biologist** 

Insecticide-Rodenticide Branch Registration Division (7504P)

Attachments: Stamped label

Examples of warranty statements

# RESTRICTED USE CLASSIFICATION

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®

# 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:** INERT INGREDIENTS: .....80.0% **TOTAL** 100.0%

EPA Reg. No.: 5481-530

EPA Est. No.

ACCEPTED with COMENTS

in EPA Letter Dated:

# KEEP OUT OF REACH OF CHILDREN DANGER/POISON/PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detaille. Fungicide, and Rodenticide Act,

As amended, for the pesticide (If you do not understand the label, find someone to explain it to you in detail.)

Under the Federa Inserticide Reg. No.

	FIRST AID Registered under EP
	Contains an organophosphate that inhibits cholinesterase. 548/-53
If swallowed:	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 no 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, 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	Take off contaminated clothing.
clothing:	Rinse skin immediately with plenty of water for 15-20 minutes.
	<ul> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
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.
	EMERCENCY INFORMATION

#### 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

# 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 deterrained 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



Los Angeles, CA 90023 U.S.A 1-323-264-3910 • 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 <u>Alternate Wording when packaged in SMARTBOX</u>: 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 in case of a broken package, spill or equipment breakdown:

- 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, P, 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 highwater 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.

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.

<u>Alternate Wording when packaged in SMARTBOX</u>: 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

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	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.	Do not place Thimet 20-G granules in direct contact with seed.  Do no graze or feed treated hay or forage to livestock.
	Leafhoppers Aphids Lygus bugs Thrips Mites Seedcorn maggots 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	Apply granules in a band over the row and lightly incorporate into the soil using tines or a light drag chain.  Granules must be incorporated into the soil.	Do not apply later than 60 days before harvest.  Do not apply more than one application of Thimet 20-G per crop season.  Use the high rate under heavy pest pressure.
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.	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.  Do not apply more than one application of Thimet 20-G per crop per season.
				Use the high rate under heavy pest pressure

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
FIELD CORN	Corn rootworms	Kate of 1 minet 20-G	Apply granules to	Do not harvest, graze, or
AND SWEET CORN (excluding popcorn) At Cultivation			base of plants just ahead of cultivation shovels so as to cover granules with soil.  Granules must be incorporated into the soil.	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.  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.  Use the high rate under heavy pest pressure.
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 tilth should be favorable for good germination and emergence.  Granules must be incorporated into the soil.	Suggested for areas where limited period of protection against early season pests is necessary for good cotton growth.  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).  Do not graze or feed treated hay or forage to livestock.  Crop injury may occur if applications of diuroncontaining herbicides such as Karmex® herbicide or Direx® herbicide are made in conjunction with soilapplied organo-phosphate pesticides.  Do not apply more than
				Do not apply more than one application of <b>Thimet 20-G</b> per crop

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
				season.
				Use the high rate under
•				heavy pest pressure.
COTTON	Mites	6.0-9.0 oz per 1,000 ft	Distribute the	Recommended for areas
	Thrips	of row for any row	granules evenly in the	requiring an extended
At Planting	Aphids	spacing (36-inch	furrow at planting	period of mite control as
	Black cutworms	minimum) or no more	time. Soil	well as early season
	Leafhoppers	than 8.2 lb/A	temperature, moisture	protection against other
	Whiteflies	6075 10000	and tilth should be	cotton pests. The higher
	Leafminers	6.0-7.5 oz per 1,000 ft of row for 30-inch row	favorable for good germination and	rate is suggested for heavier soils. Do not
		spacing or no more than	emergence. Under	graze or feed treated hay
		8.2 lb/A	adverse conditions	or forage to livestock.
		0.2 10/11	plant stand may be	or rorage to investock.
			affected.	Crop injury may occur if
				applications of diuron-
			Granules must be	containing herbicides
			incorporated into the	such as Karmex and
•			soil.	Direx are made in
				conjunction with soilapplied organophosphate
				pesticides.
,				pesticides.
				Do not apply more than
			•	one application of
				Thimet 20-G per crop
				season.
				Use the high rate under
COTTON	Mites from spring to	9.0-12.0 oz per 1,000 ft	Incorporate granules	heavy pest pressure.  Irrigate as soon as
COTTON	early summer	of row for any row	into the soil as a side-	possible after treatment.
Side-Dressing		spacing (36-inch	dress application	Do not apply later than
(Irrigated Cotton		minimum) or no more	deep enough to avoid	60 days before harvest.
in Arizona and		than 10.9 lb/A	disturbance by future	Do not graze or feed
California Only)			cultivations.	treated hay or forage to
	•	7.5-10.0 oz per 1,000 ft		livestock.
		of row for 30-inch row	Granules must be	C i-i i i
		spacing or no more than 10.9 lb/A	incorporated into the soil.	Crop injury may occur if applications of diuron-
		10.9 IU/A	SOII.	containing herbicides
				such as Karmex®
				herbicide or Direx®
				herbicide are made in
				conjunction with soil-
				applied organophosphate
				pesticides.
				Do not apply more than
				one application of
				Thimet 20-G per crop
				season. Use the high rate
				under heavy pest
				pressure.
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Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
PEANUTS	Thrips	4.25 oz per 1,000 ft of	Distribute the	Do not graze or feed
At Planting	Leafhoppers	row for any row spacing (24-inch minimum) or no more than 5.8 lb/A	granules evenly in the furrow at planting time. For best results, plant peanuts when soil temperatures are favorable for establishing good peanut stands.  Granules must be incorporated into the	treated hay or forage to livestock.  Wait 90 days after treatment before harvesting peanuts.  Do not apply more than one application of Thimet 20-G per crop season.  Use on peanuts at
			soil.	pegging is prohibited.
POTATOES  At Planting	Aphids Leafhoppers Leafminers	Light or Sandy Soils: 8.5-11.3 oz per 1,000 ft of row for any row	Distribute the granules evenly in the furrow or band on	Wait 90 days after treatment before harvesting potatoes.
ACTIONLING	Psyllids Wireworms Flea beetle larvae and reduction of flea beetle adults	spacing (32-inch minimum) or no more than 11.5 lb/A  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	each side of the row and incorporate.  Granules must be incorporated into the soil.	Use the high rate under heavy pest pressure.
	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.  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.
				Use the high rate under heavy pest pressure.

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
POTATOES	Aphids	Light or Sandy Soils:	For postemergence	Wait 90 days after
Postemergence	Leafhoppers Colorado potato beetle (early season only) Wireworms (suppression only)	8.5 – 11.3 oz per 1,000 ft of row for any row spacing (32-inch minimum)  Do not use on heavy soils.	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.	treatment before harvesting potatoes.  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.  Use the high rate under heavy pest pressure.
SORGHUM	Greenbugs	4.5 – 6.0 oz per 1,000 ft	Place granules in a 7-	Do not place THIMET
At Planting		of row for any row spacing (30-inch minimum) or no more than 6.5 lb/A.	inch band over the row directly behind the planter shoe in front of or behind the press wheel and lightly incorporate.  OR	20-G granules in direct contact with seed.  Do not apply more than one application of THIMET 20-G per crop season.
			Drill 1 inch below and 2 inches to the side of the seed.	Use the high rate under heavy pest pressure.
SORGHUM  At Cultivation	Chinch bug nymphs (Colorado, Kansas, Nebraska)		Apply granules to base of plants just ahead of cultivation	Later infestation of chinch bugs may not be controlled.
			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.	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.
				Use the high rate under heavy pest pressure.

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
SOYBEANS	For early season	6.75 oz per 1,000 ft of	Drill granules to the	Do not place THIMET®
	control of:	row for any row spacing	side of the seed.	20-G granules in direct
At Planting	Mexican bean beetles	(30-inch minimum) or		contact with seed.
	Leaf Hoppers	no more than 7.4 lb/A	Granules must be	
	Lygus bugs		incorporated into the	Do not feed the foliage of
	Seedcorn maggots		soil.	treated soybeans.
	Thrips	- -		distribution of the state of th
	Aphids	<u> </u>		Crop injury may result
	Mites	,		when preplant
	TVIICO3			incorporated or
	·			1 -
				preemergence applications of
			'	
				metribuzin herbicides are
				used in conjunction with
	Seedcorn maggots		Place granules in a 7-	this product or other soil-
	<b>'</b>		inch band over the	applied organophosphate
			row directly behinid	pesticides.
			the planter shoe and	i
			in front of the press	Do not apply more than
			wheel and lightly	one application of
			incorporate.	THIMET 20-G per crop
				season.
			Granules must be	
		*	incorporated into the	
			soil.	
			3011.	
SUGAR BEETS	Aphids	3.4 - 4.5 oz per 1,000 ft	Drill granules to side	Do not place THIMET
•	Beet root maggots	of row for any row	of the seed OR place	20-G granules in direct
At Planting	Leafhoppers	spacing (20-inch	granules in a band	contact with the seed.
Đ	Mites	minimum) or no more	over the seed and	
	Leafminers	than 7.4 lb/A	lightly incorporate.	Do not apply within 30
				days of harvest.
			Granules must be	aajo oi mu toot.
			incorporated into the	Do not apply more than
			soil.	one application of
•			5UII.	
				THIMET 20-G per crop
				season.
				Han the high mater 3
		Ì	1	Use the high rate under
				1
TICAD DEEMS	Mitag	40 751	D:	heavy pest pressure.
UGAR BEETS	Mites	4.9 – 7.5 lb per acre	Direct granules over	Do not apply within 30
	Aphids	4.9 – 7.5 lb per acre	the row towards the	
		4.9 – 7.5 lb per acre	the row towards the base of the plants.	Do not apply within 30 days of harvest.
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate	Do not apply within 30
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil	Do not apply within 30 days of harvest.  Do not broadcast.
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels,	Do not apply within 30 days of harvest.  Do not broadcast.  Consult your state
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil	Do not apply within 30 days of harvest.  Do not broadcast.  Consult your state experiment station or
SUGAR BEETS Postemergence	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe.	Do not apply within 30 days of harvest.  Do not broadcast.  Consult your state experiment station or state extension service for
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels,	Do not apply within 30 days of harvest.  Do not broadcast.  Consult your state experiment station or
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe.	Do not apply within 30 days of harvest.  Do not broadcast.  Consult your state experiment station or state extension service for
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe.  Apply post-	Do not apply within 30 days of harvest.  Do not broadcast.  Consult your state experiment station or state extension service for proper timing of
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe.  Apply postemergence when	Do not apply within 30 days of harvest.  Do not broadcast.  Consult your state experiment station or state extension service for proper timing of
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe.  Apply postemergence when	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.
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe.  Apply postemergence when plants are dry.  Granules must be	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.  Do not apply more than
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe.  Apply postemergence when plants are dry.  Granules must be incorporated into the	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.  Do not apply more than one application of
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe.  Apply postemergence when plants are dry.  Granules must be	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.  Do not apply more than one application of THIMET 20-G per crop
	Aphids	4.9 – 7.5 lb per acre	the row towards the base of the plants. Lightly incorporate granules into the soil using tines, shovels, or a rotary hoe.  Apply postemergence when plants are dry.  Granules must be incorporated into the	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.  Do not apply more than one application of

Crops	Pests Controlled	Rate of Thimet 20-G	Application	Remarks
				Use the high rate under
				heavy pest pressure.
				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	Do not graze or feed treated hay or forage to livestock.
			the open furrow immediately before covering with soil.	Do not apply more than one application of THIMET 20-G per crop season.
			Granules must be incorporated into the soil.	Use the high rate under heavy pest pressure.

# USE RATES AS POUNDS PER ACRE

				AP	PLICA'	TION F	RATE (	ounces p	er 1,00	0 ft of r	ow)				
	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  $43,560 \text{ ft}^2/A = \text{lb/A}$ .

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.

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

SUGGESTED GRANULAR APPLICATOR SETTING1

	Plant	ter Speed 5	mph	Plant	ter Speed 7	mph
Applicator	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

<sup>&</sup>lt;sup>1</sup>Suggested 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. <u>Alternate Wording when packaged in SMARTBOX</u>:

**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.

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