

# Drexel. Dimethoate 4EC

Systemic Insecticide - Miticide

### **ACTIVE INGREDIENT:**

Dimethoate*	43.5%
OTHER INGREDIENTS:	56.5%
TOTAL:	100.0%

<sup>\*</sup> This product contains 4 pounds of Dimethoate per gallon.

# KEEP OUT OF REACH OF CHILDREN ARNING / AVISO

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.)

### See FIRST AID Below

EPA Reg. No. 19713-231 EPA Est. No. 19713-GA-1

**Net Content:** 2.5 Gals. (9.46 L)

### **FIRST AID**

### IF SWALLOWED:

- · Call a poison control center or doctor immediately for treatment
- · Have person sip a glass of water if able to swallow.
- · Do not induce vomiting unless told to by a poison control center
- · Do not give anything by mouth to an unconscious or convulsing person.

### IF IN EYES:

- · Hold eye open and rinse slowly and gently with water for 15 to 20
- · Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- · Call a poison control center or doctor for treatment advice.

### IF ON SKIN OR CLOTHING:

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

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

NOTE TO PHYSICIAN: Atropine is antidotal. Pralidoxime chloride may be effective as an adjunct to atropine. This product may cause cholinesterase inhibition. Treatment should be directed at the control of symptoms and clinical condition. Dimethoate is an organophosphate insecticide/miticide.

### PRECAUTIONARY STATEMENTS

### **Hazards To Humans and Domestic Animals**

WARNING: May be fatal if swallowed. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Harmful if absorbed through skin. Avoid contact with skin.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are barrier laminate, butyl rubber or viton. If you want more options, follow the instructions for Category B on an EPA chemical-resistance category selection chart.

(Continued)

### PRECAUTIONARY STATEMENTS (Cont.)

Mixers, loaders, applicators, flaggers and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks, goggles or face shield, chemical-resistant gloves, a 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 and chemical-resistant apron when mixing, loading, cleaning up spills or

See Engineering Controls for additional requirements and exceptions. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

### **ENGINEERING CONTROLS**

Mixers and loaders supporting aerial application to Alfalfa, Cotton, Soybeans, Corn, Safflower, Sorghum and Wheat, must use a closed system that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4)]. The system must be capable of removing the pesticide from the shipping container and transferring it into mixing tanks and/or application equipment. At any disconnect point, the system must be equipped with a dry disconnect or a dry couple shut-off device that is warranted by the manufacturer to minimize drippage to no more than 2 ml per disconnect.

In addition, mixers and loaders must:

- wear the personal protective equipment required on this labeling for mixers/loaders, except that no respirator is required,
- wear protective eyewear, if the system operates under pressure
- be provided and have immediately available for use in an emergency (such as a broken package, spill or equipment breakdown), chemical-resistant footwear and a respirator of the type specified in the PPE section of this labeling.

Pilots must use an enclosed cockpit that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240(d)(6)]. Pilots need not wear the PPE required in this labeling for applicators, but must wear at least a long-sleeved shirt, long pants, shoes and socks.

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the WPS for agricultural pesticides [40 CFR 170.240 (d)(4-5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) 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.

Manufactured By:



### **ENVIRONMENTAL HAZARDS**

This product is toxic to wildlife and aquatic invertebrates. This product is highly toxic to bees and other pollinators exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product or allow it to drift to blooming crops or weeds if bees or other pollinating insects are foraging in the treatment area.

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

Dimethoate is known to leach through soil into groundwater under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination.

This product may contaminate water through drift of spray in wind. This product has a high potential for runoff for several days after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this product.

A level, well maintained vegetative buffer strip between areas to which this product is applied and surface water features such as ponds, streams and springs will reduce the potential for contamination of water from rainfall-runoff. Runoff of this product will be reduced by avoiding applications when rainfall is forecasted to occur within 48 hours.

A vegetative filter strip constructed and maintained in accordance with the 2000 Natural Resources Convervation Service publication Conservation Buffers to Reduce Pesticide Losses (http://permanent.access.gpo.gov/lps9018/www.wcc.nrcs.usda.gov/water/quality/common/pestmgt/files/newconbuf.pdf) will significantly reduce the potential for contamination of water from rainfall-runoff.

### PHYSICAL OR CHEMICAL HAZARDS

Combustible. Do not use, pour, spill or store near heat or open flame. Do not use this product in or on electrical equipment due to the possibility of shock hazard.

### **DIRECTIONS FOR USE**

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, 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), restricted entry interval and notification to workers. The requirements in this box only apply to uses of this product that are covered by the WPS.

Do not enter or allow worker entry into treated areas during the Restricted Entry Interval (REI).

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls worn over longsleeved shirt and long pants, chemical-resistant gloves made of any waterproof material, chemical-resistant footwear plus socks and chemical-resistant headgear for overhead exposure.

**Double Notification:** Notify workers of the application by warning them orally and by posting warning signs at entrances to treated area.

BEFORE USING, READ WARNING STATEMENTS ON CONTAINER LABEL.

### **APPLICATION RESTRICTIONS**

This product is for use in commercial settings only. Use in residential settings is prohibited.

DO NOT use on crops grown in greenhouses.

This product has a systemic and contact activity against a broad spectrum of piercing, sucking and chewing insects. However, it may not control certain organophosphate-resistant species.

**TANK-MIXING:** This product is compatible in spray tank-mixes with most insecticides, miticides and fungicides provided they are not alkaline in reaction. Field experience indicates that this product has been satisfactorily mixed with Azinphos methyl, Captan, Carbaryl, Diazinon, Dicofol, Dodine, Malathion, Parathion, Pyrethroids, Thiram and Zineb.

Because uniform dispersibility and sprayability may be influenced by pesticide combinations used, it is recommended that compatibility be determined before adding pesticides to the spray tank.

In a pint or quart jar, mix products and water proportionate to the intended tank-mix. If there is any separation, we recommend that the combination not be used. The addition of a non-ionic, general purpose spreader-activator will usually eliminate any incompatibility noted.

For proper mixing, spray tank should be at least three-fourths filled with water before adding this product. Add tank-mixing products in the following order: water-soluble bags, wettable powders, dry flowables, liquid flowables, emulsifiable concentrates and other soluble materials such as fertilizers. When tank-mixing, allow water-soluble bags and soluble fertilizers to dissolve first before adding this product. Mechanical agitation or recirculation through pump bypass to tank is usually sufficient for maintaining a good dispersion. This product should not be tank-mixed with other pesticides, surfactants or fertilizers unless prior use has shown the combination non-injurious under your conditions of use. Follow precautionary statements and directions for all tank-mix products.

Spray tank-mixes of this product with alkaline insecticides, fungicides, miticides and fertilizers should be applied promptly. However, alkaline materials such as Bordeaux mixture and lime should not be used. Tank-mixing must be done in accordance with the more/most restrictive of label limitations and use precautions for all products to be mixed. Do not exceed the maximum dosage rate indicated for any pesticide included in the tank-mix. This product may not be mixed with any product containing a label prohibiting such mixing.

PHYTOTOXICITY STATEMENT: As is common with most emulsifiable concentrate formulations, adverse effects such as spotting or discoloration of the fruit or foliage can occur. Some conditions known to contribute to phytotoxicity include, but are not limited to, high temperatures, poor spray drying conditions, excessive spray deposit or runoff, certain spray mixtures, stage of crop development or tank-mixes with other pesticides.

**ODOR:** Dimethoate formulations may produce a distinctive odor during the spray operation, but under normal conditions this odor does not persist.

# RESISTANCE MANAGEMENT GROUP 1B INSECTICIDE

DIMETHOATE 4EC contains a Group 1B insecticide or acaricide. Insect/mite biotypes with acquired resistance to Group 1B may eventually dominate the insect/mite population if Group 1B insecticides or acaricides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by this product or other Group 1B insecticides or acaricides.

To delay insecticide or acaricide resistance, consider:

- Avoiding the consecutive use of this product or other Group 1B insecticides/acaricides that have similar target site of action on the same insect/mite species.
- Using tank-mixtures or pre-mixes with insecticides/acaricides from a different target site of action Group as long as the involved products are all registered for the same use and have different sites of action.
- Basing insecticide/acaricide use on a comprehensive IPM program.
- Monitoring treated insect/mite populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors and/or manufacturer for insecticide/acaricide resistance management and/or IPM recommendations for specific site and resistant pest problems.

### **METHODS OF APPLICATION**

This product is intended for use in conventional hydraulic sprayers, ground applicators or aerial sprayers. Do not apply when weather conditions favor drift of spray from treated areas. Repeat applications as necessary unless otherwise specified. Consult your State Experiment Station or State Extension Service for proper timing of application.

The use of a drift retardant agent cleared for food use is recommended when applying this product by air or ground.

**Dilute Application – Ground Application For Field and Vegetable Crops:** Apply specified rate in 20 to 60 gallons of water per acre unless otherwise stated.

Concentrate Application – Ground Application: Apply specified rate in no less than 5 gallons of water per acre unless otherwise stated. Orchard Application – Apply equivalent per acre rates in 20 to 100 gallons of water per acre unless otherwise stated. Special concentrate equipment is necessary for these uses.

**High Pressure Handwand Equipment** – When applications are made by high pressure handwand equipment, the maximum application rate for all crops and use patterns is 0.0025 pounds of active ingredient (0.08 fl. oz. of this product) per gallon.

**Air Application** – Unless otherwise stated, apply at least one gallon of finished spray per acre. Apply at least 5 gallons of finished spray per acre in CA. For aerial applications to orchards, use equivalent per acre rate in not less than 10 gallons of water per acre.

Do not use air application on Pecans.

Automatic flagging devices should be used whenever feasible.

### REQUIREMENTS FOR REDUCING SPRAY DRIFT

Do not apply under circumstances where possible drift to unprotected persons, or to food, forage or other plantings that might be damaged, or crops thereof rendered unfit for sale, use or consumption can occur.

- Use the largest droplet size consistent with acceptable efficacy.
   Formation of very small droplets may be minimized by appropriate
   nozzle selection, by orienting nozzles away from the air stream as
   much as possible and by avoiding excessive spray boom pressure.
   For groundboom and aerial applications, use medium or coarser
   spray nozzles according to ASABE 572 definition for standard noz zles or a volume mean diameter (VMD) of 300 microns or greater
   for spinning atomizer nozzles.
- Make aerial or ground applications when the wind velocity favors on-target product deposition. Apply only when the wind speed is less than or equal to 10 mph. For all non-aerial applications, wind speed must be measured adjacent to the application site on the upwind side immediately prior to application.
- 3. Do not make aerial or ground applications into areas of temperature inversions. Inversions are characterized by stable air and increasing temperatures with increasing distance above the ground. Mist or fog may indicate the presence of an inversion in humid areas. Where permissible by local regulations the applicator may detect the presence of an inversion by producing smoke and observing a smoke layer near the ground surface.
- Low humidity and high temperatures increase the evaporation rate of spray droplets and therefore the likelihood of increased spray drift. Avoid spraying during conditions of low humidity and/or high temperatures.
- All aerial and ground application equipment must be properly maintained and calibrated using appropriate carriers.
- For groundboom applications, apply with nozzle height no more than 4 feet above the ground or crop canopy.
- For airblast applications, turn off outward pointing nozzles at row ends and when spraying the outer two rows. To minimize spray loss over the top in orchard applications, spray must be directed into the canopy.
- 8. For aerial applications, release spray at the lowest height consistent with efficacy and flight safety. If the application includes an aquatic buffer zone, do not release spray at a height greater than 10 feet above the ground or crop canopy.
- 9. For aerial applications, the spray boom should be mounted on the aircraft so as to minimize drift caused by wing tip vortices. The minimum practical boom length should be used and must not exceed 75% of the wingspan or 90% of rotor blade diameter. Use upwind swath displacement.

### **CHEMIGATION**

Apply this product only through sprinkler irrigation system(s) including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move, flood (basin), furrow, border or drip (trickle). Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse system) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place. A person knowledgeable of the chemigation system and responsible for its operation or under the supervision of the responsible person shall shut the system down and make necessary adjustments should the need arise.

Mix, in a clean supply tank, the specified amount of this product and any tank-mixing products per acreage to be covered and needed quantity of water.

On all crops, use sufficient gallonage of water to obtain thorough and uniform coverage, but not cause runoff or excessive leaching. This will

vary depending on equipment, pest problem and state of crop growth. Application of more or less than optimal quantity of water may result in decreased chemical performance, crop injury or illegal pesticide residues. Meter this product into the irrigation water uniformly during the period of operation.

Do not overlap application.

Follow specified label rates, application timing and other directions and use precautions for crop being treated. Continuous mild agitation of pesticide mixture may be needed to assure uniform application, particularly if the supply tank requires a number of hours to empty.

# CHEMIGATION SYSTEMS CONNECTED TO PUBLIC WATER SYSTEMS

**Note:** Drexel Chemical Company does not encourage connecting chemigation systems to public water supplies. The following information is provided for users who have diligently considered all other application and water supply options before electing to make such a connection.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year. Chemigation systems connected to public water systems must contain a functional, Reduced-Pressure Zone (RPZ), backflow preventer or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of the fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops or, in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Do not apply when wind speed favors drift beyond the area intended for treatment.

### SPRINKLER CHEMIGATION (FOLIAR SPRAY USES)

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock. Allow sufficient time for pesticide to be flushed through all lines and all nozzles before turning off irrigation water. Do not apply when wind speed favors drift beyond the area intended for treatment.

# FLOOD (BASIN), FURROW AND BORDER CHEMIGATION (SOIL DRENCH USE)

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity, such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops. Allow sufficient time for pesticide to be flushed

through all lines before turning off irrigation water. Systems utilizing a pressurized water and pesticide injection system must meet the following requirements: a) The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow; b) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump; c) The pesticide injection pipeline must also contain a functional, normally closed, solenoid operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down; d) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops; e) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected; f) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

### **NUT CROPS**

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Pecans	Aphids, Leafhoppers, Mites	0.66 pt.	21
(REI = 48 hrs.)	SPECIFIC DIRECTIONS: Do not use air application. Do not graze livestock in treated groves.		

**USE RESTRICTIONS:** Do not apply more than 0.33 lb. a.i. (0.66 pt. of this product) per acre per application. Do not apply more than 0.33 lb. a.i. (0.66 pt. of this product) per acre per year.

### **FRUIT CROPS**

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Cherries (Pre-harvest) –	Aphids, Cherry fruit flies, Mites	2.66 pts. (max.)	21
ID, MT, OR, UT and WA only (REI = 10 days)*	rruit flies, Mites (max.)  SPECIFIC DIRECTIONS: Dilute Application: 0.5 to 1 pt. in minimum 100 gals. of water. Mix 1 pt. per 100 gals. of water when insect population is high. Concentrate Application: 2 pts. in minimum 50 gals. of water.  On mature Sweet and Tart cherries, use 2 pts. per acre. Precautions should be taken when using concentrated sprays to avoid fruit marking and injury on sensitive varieties (such as Ranier species). Make an application within 7 days of adult fly emergence in the area. This application should be made in late May or early June when fruits are small in size. Do not apply when trees or substantial numbers of weeds in the treatment area are in bloom. Do not graze livestock		
	ONS: Do not apply mo		
1.33 lbs. a.i. (2.66 * The REI is 10 da	roduct) per acre per application. Do not apply more than (2.66 pts. of this product) per acre per year.  10 days. However, the REI is increased to 14 days in eas where the average annual rainfall is less than 25 year.		
Cherries (Post- harvest) – ID,	Aphids, Cherry fruit flies. Mites	2.66 pts. (max.)	_
MT, OR, UT and WA only (REI = 10 days)*	SPECIFIC DIRECTIONS: Dilute application: 0.5 to 1 pt. in minimum 100 gals. of water. Concentrate application: 2 pts. in minimum 50 gals. of water.  Make an application at a minimum of 7 days after final harvest or apply in cases where a decision is made not to harvest due to poor (Continued)		

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Cherries (Post- harvest) – ID, MT, OR, UT and WA only	fruit quality, a light crop or unfavorable market conditions. For best results, make an application when fruit hardens or drops. Do not apply when trees or substantial numbers of weeds in the		
(REI = 10 days)* (Cont.)	treatment area are in bloom. Do not graze live- stock in treated orchards. Use up to 2.66 pts. per acre when insect pest population is high.		

**USE RESTRICTIONS:** Do not apply more than 1.33 lbs. a.i. (2.66 pts. of this product) per acre per application. Do not apply more than 1.33 lbs. a.i. (2.66 pts. of this product) per acre per year.

\* The REI is 10 days. However, the REI is increased to 14 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

Grapefruit,	Aphids, Mites	2 pts. (max.)	15
Kumquats,	(except Rust),		
Lemons, Limes,	Psyllid, Thrips,		
Oranges,	Whiteflies		
Pummelos,	SPECIFIC DIRECTION	ONS: <b>Ground Ap</b>	plication:
Tangelos,	0.5 to 1 pt. in 50 to 1	100 gals. of water	for dilute
Tangerines	application. Mix 1 pt.	in 50 to 100 gals	of water
(REI = 10 days)*	if infestation is hea	vy or if orchard	foliage is
	donne Apply on a th	aarawah diatributi	on cover

if infestation is heavy or if orchard foliage is dense. Apply as a thorough distribution coverage spray. Concentrate Application (Mist): Apply 2 pts. per acre in sufficient water to provide full coverage of foliage. Air Application: Apply 2 pts. per acre in 5 to 10 gals. of water. Do not apply when trees or substantial numbers of weeds in the orchard are in bloom. Do not

graze livestock in treated orchard.			
Scales (except	2 pts. (max.)	15	
Black or Snow)			

SPECIFIC DIRECTIONS: **Ground Application:** 0.5 to 1.5 pts. in 50 to 100 gals. for dilute application. Mix 1.5 pts. in 50 to 100 gals. of water if infestation is heavy or if orchard foliage is dense. Apply as a thorough distribution coverage spray. **Concentrate Application (Mist):** 2 pts. per acre in sufficient water to provide full coverage of foliage.

Do not apply when trees or substantial numbers of weeds in the orchard are in bloom. Do not graze livestock in treated orchards.

See

"SPECIFIC

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**USE RESTRICTIONS:** Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per application. Do not apply more than 1 lb. (2 pts. of this product) per acre per year. Do not apply to Citrus seedlings

\* The REI is 10 days. However, the REI is increased to 14 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

. ,	
Citrus,	Thrips
Grapefruit,	
Lemons,	
Oranges,	SPECI
Tangerines –	of this
AZ Only	to achi
(REI = 10 days)*	type of
	centrat
	up to 1

**DIRECTIONS**' SPECIFIC DIRECTIONS: Use specified dosages of this product in the amount of water necessary to achieve adequate coverage of foliage. The type of equipment used will determine the concentration required. Ground Application: Apply up to 1 lb. of active ingredient (2 pts. of this product) in not less than 20 gals. of water per acre. Do not enter treated groves within 4 days of last application. Use of Dimethoate is prohibited during any time of day in any given orchard from when that orchard is 10% open bloom until such time as there has been at least 75% petal fall on the north side of the trees. Applications of Dimethoate shall be limited to that period of time between 1 hour after sunset to 3 hours before sunrise when any one of the following conditions prevail: 1) Before the onset of petal fall, the

(Continued)

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Citrus, Grapefruit, Lemons, Oranges, Tangerines – AZ Only (REI = 10 days)*	orchard to be treate and these open bloor of the total anticipate After the initiation of than 25% of open orchard to be treate endar dates of Febru All applications of Dir documented on Forn pest control advisor, ager. This is normally cations of pesticic applicators may omi Report" section. The bloom of the orchard the time of the applitude section for "Instructions". Both pri shall mail to the Phoenix office, the office of the form 1080, done in Each Form 1080, shall mail to that than Monday follow application was mail to the section for mail to the form 1080, done in Each Form 1080, when the form the section was mail to the section for mail to the phoenix office, the office of the form 1080 shall mail to the section for mail to the form 1080, done in Each Form 1080 shall mail to the section for mail to the phoenix office, the office of the form 1080 shall mail to the section for mail to the phoenix office, the office of the form 1080 shall mail to the phoenix office, the office of the form 1080 shall mail to the phoenix office, the office of the form 1080 shall mail to the phoenix office, the office of the form 1080 shall mail to the phoenix office, the office of the form 1080 shall mail to the phoenix office, the office of the form 1080 shall mail to the phoenix office, the office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office, the office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail to the phoenix office of the form 1080 shall mail	ms represent lessed bloom in the of petal fall, there blooms remaining the petal fall, there blooms remaining the petal fall between the petal fall fall fall fall fall fall fall f	m present than 10% rchard; 2) e are less ng in the cally 1st. Is must be either by a arm mantom application e status of it was at the cally 1st. Is must be either by a arm mantom application e status of it was at the call the call that is completed this label. It is not later which the
than 1 lb. a.i. (2 pts apply more than 1 The REI is 10 da outdoor areas w inches per year.	DNS: DO NOT apply s. of this product) per a lb. a.i. (2 pts. of this pays. However, the REI here the average ann	acre per application product) per acre is increased to 1 nual rainfall is les	on. Do not per year. 14 days in
Citrus – AZ & CA: Non-bearing and Nursery stock (REI = 10 days)*	Aphids, Thrips  SPECIFIC DIRECT per 100 gals. of wa year trees begin to (Trees 1 to 3 years in the furrow or bas tree. Apply when in appears. Do not appl within 1 year. Do not apply when tr of weeds in the ord graze livestock in tree	ter. May be apple bear fruit. Soi old): 2 pts. per a sin around the basect injury to nely to trees that will ees or substantia hard are in bloor	ied in the I Drench cre. Apply ase of the w growth I bear fruit I numbers
this product) per a (2 pts. of this prod * The REI is 10 da outdoor areas w inches per year.	DNS: Do not apply mo cre per application. D uct) per acre per year ays. However, the REI here the average anr	o not apply more DO NOT apply It is increased to 1 aual rainfall is les	than 1 lb. by air. 14 days in s than 25
Pears (REI = 10 days)*	Aphids, Leafhoppers, Mites (except Rust), Pear psyllas SPECIFIC DIRECTION	2 pts. (max.)	28

weeds in the orchard are in bloom. Do not graze

(Continued)

livestock in treated orchards.

USE RESTRICTIONS: Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year.

\* The REI is 10 days. However, the REI is increased to 14 days in

outdoor areas where the average annual rainfall is less than 25

inches per year.

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Pears – Non-bearing (REI = 10 days)*	Aphids, Leafhoppers, Mites (except Rust), Pear psyllas	2 pts. (max.)	_
	SPECIFIC DIRECTI 100 gals. of water as to 1 pt. of this product not graze livestock i apply when trees of weeds in the orchard	s dilute application of per 100 gals. of on treated orchard or substantial nu d (grove) are in bl	n. Mix up water. Do s. Do no mbers o oom.
this product) per ac a.i. (2 pts. of this p * The REI is 10 da outdoor areas wh inches per year.	DNS: Do not apply mo cre per application. Do roduct) per acre per y ys. However, the REI nere the average ann	o not apply more year. I is increased to 1	than 1 lb 4 days ir
VEGETABLE Where a range of a when pest population	pplication rates is spe	ecified, apply the	higher ra
Crop	Pest Control	Rate led Per Acre	PHI (Days)
Asparagus – Except AZ & CA	Aphids, Asparagus beetles	1 pt.	180
(REI = 48 hours)	SPECIFIC DIRECT harvest at no less t a maximum of 2 pts apply less than 180	han 14 day interv s. per acre per ye	als, up to ar. Do no
this product) per ad	NS: Do not apply mo	ore than 0.5 lb. a. o not apply more	i. (1 pt. o
Beans including Fresh, Lima, Snap and Dry beans (excludes	Aphids, Bean leaf b Grasshoppers, Leafhoppers, Leafn Lygus bugs, Mexica	peetles, 0.5 to 1 pt. niners,	0
Cowpeas) (REI = 48 hours)	bean beetles, Mites SPECIFIC DIRECT vines. Do not apply to be treated whe bloom.	TONS: Do not fee if bees are visiting	g the area
this product) per ad	NS: Do not apply mocre per application. Do roduct) per acre per year.	o not apply more	than 1 lb
Broccoli, Cauliflower (REI = 48 hours)*	Aphids	0.5 to 1 pt.	7
this product) per a lbs. a.i. (3 pts. of thi is 7 days. * The REI is 48 hou	NS: Do not apply mo cre per application. Do s product) per acre pe urs. However, the REI here the average ann	oo not apply more year. Retreatme	than 1.5 nt interva 2 hours ir
Brussels sprouts  – CA Only (REI = 48 hours)*	Aphids SPECIFIC DIRECT of 50 gals. of water ment at 7 day interv in treated fields. Do	per acre by grou als. Do not graze	nd equip-
this product) per a lbs. a.i. (3 pts. of thi is 7 days. * The REI is 48 hou	NS: Do not apply mo cre per application. Do s product) per acre per urs. However, the REI here the average ann	ore than 0.5 lb. a. to not apply more ryear. Retreatme	than 1.5 nt interva 2 hours ir
inches per year.		(0	

Rate Per

(Continued)

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Celery (REI = 48 hours)	Carmine mites, Leafminers, Two-spotted spider mites	1 pt.	7
this product) per ac	NS: Do not apply more than are per application. Do not application approached by sproduct) per acre per year. F	oply more	than 1.5
Endive (Escarole), Leaf lettuce, Swiss chard (REI = 48 hours)	Aphids, Leafhoppers, Leafminers	0.5 pt.	14
of this product) per	NS: Do not apply more than acre per application. Do not of this product) per acre per	ot apply m	ore than
Garbanzo beans (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Leafminers, Lygus bugs, Mites	0.5 to 1 pt.	0
	SPECIFIC DIRECTIONS: I vines. Do not apply if bees a to be treated when crops bloom.	are visiting	the area
this product) per ac	NS: Do not apply more than re per application. Do not ap oduct) per acre per year. Reti	ply more	han 1 lb.
Kale, Mustard greens	Aphids, Leafhoppers, Leafminers	0.5 pt.	14
(REI = 48 hours)	SPECIFIC DIRECTIONS: A of 50 gals. of water per acr ment at 7 day intervals. Do in treated fields. Do not app	e by groui not graze	nd equip-
of this product) per a lb. a.i. (1 pt. of this p	NS: Do not apply more than acre per application. Do not a product) per acre per year. R and 9 days for Mustard gree	0.25 lb. a. apply more etreatmer	than 0.5
Lentils (REI = 48 hours)	Aphids	0.33 to 1 pt.	14
`	SPECIFIC DIRECTIONS: D treated plants. Do not apply the areas to be treated whe are in bloom. Lygus bugs SPECIFIC DIRECTIONS: D treated plants. Do not apply	o not feed if bees aren crops 1 pt. o not feed if bees ar	re visiting or weeds  14 I or graze re visiting
this product) per ac a.i. (2 pts. of this pro	the areas to be treated who are in bloom.  NS: Do not apply more than re per application. Do not apoduct) per acre per year. Retro	0.5 lb. a.i	. (1 pt. of than 1 lb.
7 days. Lentils – WA Only (REI = 48 hours)	Aphids, Lygus bugs	0.25 to 1 pt.	14
. ,	SPECIFIC DIRECTIONS: A first appear. Repeat as nee 1 lb. a.i. (2 pts. of this pro year. Do not feed or graze h Note: CHEMIGATION – Do any type of irrigation system	Apply whe ded up to duct) per ay or treat o not apply	a total of acre per ed vines.
this product) per ac	NS: Do not apply more than re per application. Do not application. Do not application. The poduct per acre per year. Retired to the product per acre per year.	0.5 lb. a.i	han 1 lb.

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Melons – Except Watermelons (REI = 48 hours)	Aphids, Leafhoppers, Leafminers, Maggots, Thrips	1 pt.	3
USE RESTRICTION this product) per ac	NS: Do not apply more than re per application. Do not apoduct) per acre per year. Retr	ply more t	than 1 lb.
Peas (REI = 48 hours)	Aphids	0.3 pt.	0
(NET - 40 Hours)	SPECIFIC DIRECTIONS: D hay within 21 days after las a stationary viner is used. D when a mobile viner is us more than 1 application pe Do not apply if bees are visit treated when crops or weed not apply more than 0.16 lb product) per acre per applic more than 0.16 lb. a.i. (0.3 per acre per year. Not for us	at applicate on the applicate on the applicate of the application of the application. The application of the	ion when I or graze not make I season. eas to be loom. Do pt. of this not apply product) d peas.
	Lygus bugs  SPECIFIC DIRECTIONS: D hay within 21 days after las a stationary viner is used. D when a mobile viner is us more than 1 application pe	t applicat o not feed sed. Do r	ion when I or graze not make
10	Do not apply if bees are visit treated when crops or weed not apply more than 0.16 lb product) per acre per applic more than 0.16 lb. a.i. (0.3 per acre per year. Not for us	ing the ar ls are in b . a.i. (0.3 ation. Do pt. of this	eas to be loom. Do pt. of this not apply product)
Dry Peas – ID, OR and WA only	Aphids	0.33 to 0.66 pt.	0
(REI = 48 hours)	SPECIFIC DIRECTIONS: A spray volume of not less the per acre by ground or air a exceed 0.5 lb. a.i. (1 pt. or acre per year. Allow at least applications. Do not graze crops in treated areas.  Note: CHEMIGATION — Do any type of irrigation system Do not apply if bees are visit treated when crops or week. Not for use on Field peas.	an 5 gals. application f this pro- st 7 days livestock not apply n. ing the ar ls are in b	of water n. Do not duct) per between on cover y through eas to be bloom.
Succulent Peas – ID, OR and WA	Aphids	0.33 to 0.66 pt.	0
only (REI = 48 hours)	SPECIFIC DIRECTIONS: A spray volume of not less the per acre by ground or air a exceed 0.5 lb. a.i. (1 pt. or acre per season. Allow at lea applications. Do not graze crops in treated areas.  Note: CHEMIGATION – Do any type of irrigation system Do not apply if bees are visit treated when crops or week Not for use on Field peas.	an 5 gals. application f this pro- ast 7 days livestock not apply n. ing the ar	of water n. Do not duct) per between on cover y through eas to be
Succulent Peas (With pod) – CA	Aphids, Leafminers, Thrips	0.33 pt.	0
Only (REI = 48 hours)	SPECIFIC DIRECTIONS: M may be made at 14 day exceed 0.5 lb. a.i. (1 pt. o acre per season. Do not rapplications per growing se on Field peas.	intervals f this pro- nake mor	Do not duct) per e than 3
		(Co	ntinued)

### **VEGETABLE CROPS** (Cont.)

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Peppers	Aphids, Leafhoppers,	0.5 to	0
(REI = 48 hours)	Maggots	0.66 pt.	
LISE DESTRICTION	NS: Do not apply more than (	133 lb a i	(0.66 pt

**USE RESTRICTIONS:** Do not apply more than 0.33 lb. a.i. (0.66 pt. of this product) per acre per application. Do not apply more than 1.65 lbs. a.i. (3.3 pts. of this product) per acre per year. Retreatment interval is 7 days.

Potatoes	Aphids, Grasshoppers,	0.5 to	n
			0
(REI = 48 hours)	Leafhoppers, Leafminers	1 pt.	

**USE RESTRICTIONS:** Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. Retreatment interval is 7 days.

Tomatoes	Aphids, Leafhoppers,	0.5 to	7
(REI = 48 hours)	Leafminers	1 pt.	

**USE RESTRICTIONS:** Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. Retreatment interval is 6 days.

Turnip - Greens,	Aphids, Leafhoppers,	0.5 pt.	14
Roots	Leafminers		
(REI = 48 hours)			

**USE RESTRICTIONS:** Do not apply more than 0.25 lb. a.i. (0.5 pt. of this product) per acre per application. Do not apply more than 1.75 lbs. a.i. (3.5 pts. of this product) per acre per year. Retreatment interval is 72 hours.

Watermelons	Aphids, Leafhoppers,	0.5 to	3
(REI = 48 hours)	Leafminers, Maggots,	1 pt.	
	Thrips		

**USE RESTRICTIONS:** Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. Retreatment interval is 7 days.

### **FIELD CROPS**

is 14 days.

Where a range of application rates is specified, apply the higher rate when pest population is high.

	•			
Crop	Pest Controlled	Rate Per Acre	PHI (Days)	
Alfalfa, Sainfoin (REI = 48 hours)	Aphids, Grasshoppers, Leafhoppers, Plant bugs (including Lygus), reduction of Alfalfa weevil larvae	0.5 to 1 pt.	10	
	SPECIFIC DIRECTIONS: 10 days of harvest or pas application per crop cycle only on cutting to which a if bees are visiting the are crops or weeds are in bloc	sturing. Ma or cutting pplied. Do a to be trea	ake only 1 . Effective not apply	
USE RESTRICTIONS: Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per crop cycle or cutting. Do not apply more than once per cutting. Do not apply more than 3 times per year. Minimum retreatment interval is 30 days.				
Cotton – AZ and CA Only (REI = 48 hours)	Black fleahoppers, Leafhoppers, Plant bugs (including Lygus), Thrips	0.5 to 1 pt.	14	
	SPECIFIC DIRECTIONS: forage or graze livestock i			
<b>USE RESTRICTIONS:</b> Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 1 lb.				

a.i. (2 pts. of this product) per acre per season. Retreatment interval

(Continued)

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Cotton – Except AZ and CA	Aphids, Fleahoppers, Mites, Plant bugs, Thrips	0.25 to 1 pt.	14
(REI = 48 hours)	SPECIFIC DIRECTIONS: When water is used for dilution, do not make repeat applications at intervals closer than 14 days. When refined vegetable oil is used for dilution, do not make repeat applications at intervals closer than 40 days. Do not feed treated forage or graze livestock on treated fields.		
	Lygus bugs	0.5 pt.	14
	SPECIFIC DIRECTIONS: When water is used for dilution, do not make repeat applications at intervals closer than 14 days. When refined vegetable oil is used for dilution, do not make repeat applications at intervals closer than 40 days. Do not feed treated forage or graze livestock on treated fields.		cations at en refined not make er than 40 graze live-
<b>USE RESTRICTIONS:</b> Do not apply more than 0.5 lb. a.i. (1 pt. of			

**USE RESTRICTIONS:** Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per season. Retreatment interval is 14 days.

15 14 days.			
Corn - Field, Pop	Aphids, Banks grass	0.66 to	28
(REI = 48 hours)	mites (except Trans	1 pt.	(Grain)
	Pecos area of TX), Bean		14
	beetles, Corn rootworms		(Forage)
	(Adults), Fleahoppers,		
	Thrips, Two-spotted		
	spider mites		
	SPECIFIC DIRECTIONS	Ground	Applica-
	tion: Apply above rate in 2	0 to 40 gal	s. of water
	per acre. Air Application	: Apply at	ove rates
	in 1 or more gals, of water	ner acre	

in 1 or more gals. of water per acre.

Do not feed or graze within 14 days of last application. Do not apply to Corn during the pollen-shed period if bees are visiting the area.

Grasshoppers	1 pt.	28
		(Grain)
		14
		(Forage)

SPECIFIC DIRECTIONS: Ground Application: Apply above rates in 20 to 40 gals. of water per acre. Air Application: Apply above rate in 1 or more gals. of water per acre. Do not apply to Corn during the pollen-shed period if bees are visiting the area. Do not feed or graze within 14 days of last application.

**USE RESTRICTIONS:** Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per year.

**PROHIBITION:** Workers are prohibited from entering the treated area to perform detasseling tasks for 4 days in non-arid areas and for 15 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

Safflower – AZ	Aphids, Leafhoppers,	0.5 to	14
and CA Only	Plant bugs (including	1 pt.	
(REI = 48 hours)	Lygus), Thrips		

**USE RESTRICTIONS:** Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per year.

Sorghum (Milo)	Aphids (Green bugs)	0.5 to	28
(REI = 48 hours)		1 pt.	
	SPECIFIC DIRECTIONS	Ground	Applica-
	tion: Apply above rate in 2	5 to 40 gal	s. of water
	per acre. Air Application	: Apply ab	ove rates
	in 1 or more gals. of water	per acre.	

Do not feed or graze Milo within 28 days of last application. Do not apply during the pollenshed period if bees are visiting the area.

(Continued)

### FIELD CROPS (Cont.)

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Sorghum (Milo) (REI = 48 hours) (Cont.)	Grasshoppers, Mites (including Banks grass mites [excluding Trans Pecos area of TX]), Two- spotted spider mites	1 pt.	28
	SPECIFIC DIRECTIONS: Ground Application: Apply above rate in 25 to 40 gals. of water per acre. Air Application: Apply above rates in 1 or more gals. of water per acre.  Do not feed or graze Milo within 28 days of las application. Do not apply during the pollenshed period if bees are visiting the area.		
	Sorghum midge	0.25 to 0.5 pt.	28
	Ground Application: Appl to 40 gals. of water per ac Apply above rates in 1 or per acre. Do not feed or graze Milo wapplication. Do not apply shed period if bees are visited.	re. <b>Air Ap</b> more gals vithin 28 d during th	plication: . of water ays of last ne pollen-
<b>USE RESTRICTIONS:</b> Do not apply more than 0.5 lb. a.i. (1 pt. of			

**USE RESTRICTIONS:** Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. Retreatment interval is 7 days.

Soybeans (REI = 48 hours)	Alfalfa loopers, Aphids, Bean leaf beetles,	1 pt.	21
(IXLI - 40 Hours)	Leafhoppers, Mexican		
	bean beetles, Spider		
	mites, Threecornered		
	alfalfa hoppers		
	SPECIFIC DIRECTIONS	Ground	Applica-
	tion: Apply above rate in 2	5 to 40 gal	s. of water
	per acre. Air Application:	Apply abo	ove rate in
	a minimum of 1 gal. of wat	ter per acr	e.
	Do not feed or graze within 5 days of last application.		
	Grasshoppers	1 pt.	21
	SPECIFIC DIRECTIONS	Ground	Applica-
	tion: Apply above rate in 2	5 to 40 gal	s. of water
	per acre. Air Application:	Apply abo	ove rate in
	a minimum of 1 gal. of wat		
	Do not feed or graze withir cation.	5 days of	last appli-

**USE RESTRICTIONS:** Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. Retreatment interval is 7 days.

Wheat	Aphids (Green bugs),	0.5 to	35
(REI = 48 hours)	Wheat midges	0.75 pt.	
	Brown wheat mites	0.33 to	35
		0.5 pt.	
	Grasshoppers	0.75 pt.	35

**USE RESTRICTIONS:** Do not apply more than 0.38 lb. a.i. (0.75 pt. of this product) per acre per application. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per year. Do not apply within 14 days of grazing immature plants.

### **SEED CROPS**

Where a range of application rates is specified, apply the higher rate when pest population is high.

Crop	Pest Controlled	Rate Per Acre	PHI (Days)
Alfalfa	Aphids, Grasshoppers,	0.5 to	10
(REI = 48 hours)	Leafhoppers, Plant bugs (including Lygus), reduction of Alfalfa weevil larvae	1 pt.	
	SPECIFIC DIRECTIONS: Do not apply if crops or weeds in the treatment area are bloom. Do not feed or graze livestock in treatment, hay, threshings or stubble within 10 do of application.		ea are in in treated
USE RESTRICTIONS: Do not apply more than 0.5 lb. a.i. (1 pt. of			

**USE RESTRICTIONS:** Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per acre per application. Do not apply more than 0.5 lb. a.i. (1 pt. of this product) per crop cycle or cutting. Do not apply more than once per cutting. Do not apply more than 3 times per year. Minimum retreatment interval is 30 days.

Grass grown for	Aphids, Plant bugs,	0.5 to	14
seed – ID, OR	Thrips, Winter grain mites	0.66 pt.	
and WA only	SPECIFIC DIRECTIONS:	Apply in a	minimum
(REI = 48 hours)	of 2 gals. of water per acre. Apply by ground or		
	aerial equipment. Do not graze or use seed or		
	seed screenings for feed purposes. Do not use		
	on Seed bermudagrass, Seed carrots or Seed		
	onions.		

**USE RESTRICTIONS:** Do not apply more than 0.33 lb. a.i. (0.66 pt. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. Retreatment interval is 90 days.

# ORNAMENTAL PLANTS GROWN IN OUTDOOR NURSERIES ONLY

Do not use this product on Ornamental plants grown in greenhouses, Christmas tree and Conifer plantations, landscapes, interiorscapes and residential, public, recreational, commercial, industrial and/or institutional establishments.

This product is effective in controlling many sucking, piercing and chewing insects including: Aphids, Thrips, Leafminers, Psyllids, Scales, Leafhoppers and Mites that attack valuable Ornamental plants. Make adequate spray when pests appear or when damage is first observed. Do not overdose or overspray. For proper timing of treatments for the control of specific pests on Ornamental plants, consult your State Agricultural Experiment Station or State Agricultural Extension Service.

Do not use on Ornamental plants not listed on this label unless personal experience has shown that this product is not phytotoxic to your plants. A small test area should always be sprayed first before general use. Do not use on any Ornamental stock plants grown as a source of propagation material, such as cuttings, layers, root stocks or scions for grafting or budding. Do not use in spray mixtures containing oil. Do not use on plants growing in greenhouses.

For Ornamental shade and nursery trees to control Aphids and Elm leaf beetle, apply as a soil injection at the rate of one-half teaspoonful of product per inch of tree circumference measured at approximately 4.5 to 5 feet above ground level. Apply using a low-pressure injector at a 4 to 6 inch level below ground surface within the dripline of the tree. Water heavily after application. Application should be made once per growing season (twice per season for Elm leaf beetles, once shortly after trees leaf out and once 6 to 8 weeks later). Some species such as River birch, Prunus, Ornamental Cherry and Plum, Hawthorn, Honeysuckle, Japanese lace maple and Aspens are more sensitive to this product at early growth stages. Do not apply to sensitive species that have not been established for at least 3 years. DO NOT USE ON FRUIT BEARING TREES.

**IMPORTANT:** When making soil injections, use a low pressure soil injection device. Always wear a full face shield, rubber gloves, long-sleeved shirt and rubber apron. DO NOT inject into soil areas where children or pets may dig or exhume treated soil.

### **USE RESTRICTIONS**

FOR WOODY ORNAMENTALS AND CHRISTMAS TREE NURSERIES: Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per application. Do not apply more than 3 lbs. a.i. (6 pts. of this product) per acre per year. Retreatment interval is 14 days. When applications are made by high pressure handwand equipment, the maximum application rate for all crops and use patterns is 0.0025 lb. a.i. (0.08 fl. oz. of this product) per gallon. The REI is 10 days. However, the REI is increased to 14 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

**FOR HERBACEOUS ORNAMENTALS:** Do not apply more than 0.25 lb. a.i. (0.5 pt. of this product) per acre per application. Do not apply more than 0.25 lb. a.i. (0.5 pt. of this product) per acre per year. The REI is 48 hours.

**FOR CONIFER SEED ORCHARDS:** Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per application. Do not apply more than 1 lb. a.i. (2 pts. of this product) per acre per year. The REI is 48 hours. However, the REI is increased to 4 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

Special Exception for Airblast Applications to Douglas Fir Seed Orchards in WA and OR only: Do not apply more than 4.15 lbs. a.i. (8.3 pts. of this product) per acre per application. Do not apply more than 4.15 lbs. a.i. (8.3 pts. of this product) per acre per year. If airblast applications are applied at a rate of greater than 1 lb. a.i. (2 pts. of this product) per acre, the REI is 16 days. However, the REI is increased to 25 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

**FOR COTTONWOOD (Grown for pulp):** Do not apply more than 2 lbs. a.i. (4 pts. of this product) per acre per application. Do not apply more than 6 lbs. a.i. (12 pts. of this product) per acre per year. The REI is 14 days. However, the REI is increased to 24 days in outdoor areas where the average annual rainfall is less than 25 inches per year.

Plant	Pest Controlled	Rate of Application	
Arborvitae	Aphids, Bagworms,	2 tsps. per gal. of water	
	Mites	(3.5 fl. ozs. per	
		10 gals. of water)	
Azaleas	Lace bugs,	1 tsp. per gal. of water	
	Leafminers, Mites,	(1.75 fl. ozs. per	
	Tea scale, Whiteflies	10 gals. of water)	
Birch	Aphids, Leafminers	0.5 to 1 tsp. per gal. of water (0.8 to 1.75 fl. ozs. per	
		10 gals. of water)	
	SPECIFIC DIRECTION	NS: For Leafminers, apply	
		ded and repeat in 6 weeks.	
		pplication when insect pest	
	population is high.		
Boxwood	Leafminers,	1 tsp. per gal. of water	
	Mealybugs, Mites	(1.75 fl. ozs. per	
		10 gals. of water)	
	SPECIFIC DIRECTIONS: For Leafminers, appl		
	when leaves are expanded and repeat in 6 week		
Camellias	Aphids, Camellia scale, Mites, Tea scale	Foliar Spray: 1 tsp. per gal. of water (1.75 fl. ozs. per 10 gals. of water) Soil Drench: 2 fl. ozs. in 1 gal. water	
	SPECIFIC DIRECTION	NS: Using the Soil Drench	
	method, use 2 fl. ozs. in 1 gal. of water for plants		
		ease rate proportionately for	
		a Soil Drench around the	
	base of plants in early		
Carnation	Aphids, Mites, Thrips	<b>Soil Drench:</b> 2 fl. ozs. per 500 sq. ft. of bed or bench	
	SPECIFIC DIRECTIONS: Apply in sufficient water		
		even distribution. Water thoroughly following	
application.			
Cedar	Mites	2 tsps. per gal. of water	
		(3.5 fl. ozs. per	
		10 gals. of water)	
	(Continued)		

Plant	Pest Controlled	Rate of Application	
Christmas	Bagworms, Balsam	3 tsps. per gal. of water	
trees	twig aphids, Blue	(5.25 fl. ozs. per	
	aphids, European pine shoot moths,	10 gals. of water)	
	Mites, Nantucket pine		
	tip moths, Zimmer-		
	man pine moths		
	SPECIFIC DIRECTION	S: Do not use on Japanese	
	Maples or Red leaf ornamental species.		
Cottonwood	Aphids, Bagworms,	Foliar Spray: 2 fl. ozs. per	
(Poplar)	Leaf beetles	6 gals. of water	
		<b>Soil Injection:</b> 0.08 fl. oz. per inch of tree circumfer-	
		ence	
	SPECIFIC DIRECTION	S: Foliar spray: Apply 2 fl.	
		ter. Repeat on 10 day inter-	
		to 4 sprays per year. Soil	
	Injection: Apply at a rate of 0.08 fl. oz. per in		
		sured approximately 5 feet oplication should be made	
		out and again 6 to 8 weeks	
	,	t to a 4 to 6 inch level below	
	ground surface. Numbe	r of injections should equal	
		ence. Water heavily with at	
	least two inches of water	er. tion): Apply 1.33 to 4 pints	
		line. Application may be	
		fer to the Chemigation sec-	
	tion for additional applic	cation information.	
Cypress	Bactra moth larvae	1 tsp. per gal. of water	
		(1.75 fl. ozs. per	
		10 gals. of water)	
		NS: Apply as a drenching	
Daylilies	spray. Aphids, Thrips	2 tsps. per gal. of water	
Dayiilles	Aprilus, Tririps	(3.5 fl. ozs. per	
1		10 gals. of water)	
Euonymus	Aphids, Scales	1 to 2 tsps. per	
	•	gal. of water	
		(1.75 to 3.5 fl. ozs. per	
		10 gals. of water)	
		S: Mix up to 2 tsps. per galgals.) of water if insect pest	
	population is high.	gais.) or water it insect pest	
Ficus nitida	Thrips	1 tsp. per gal. of water	
	r -	(1.75 fl. ozs. per	
		10 gals. of water)	
Fir, Douglas	Fir cone midge	4 tsps. per gal. of water	
		(7 fl. ozs. per	
	SPECIFIC DIDECTION	10 gals. of water)  NS: Make thorough cover-	
		cones are closed and pen-	
	dant. Use hydraulic or b	• 1	
Fir, Fraser	Rosette bud mite	1 to 2 tsps. per	
		gal. of water	
		(1.75 to 3.5 fl. ozs. per	
	ODEOLEIO DIDEOTIO	10 gals. of water)	
	SPECIFIC DIRECTION	NS: Use a high pressure a handheld spray gun to	
		nd limbs on front and back	
of tree. Mix up to 2 tsps. per gallon (3.5 fl. ozs			
	10 gals.) of water if inse	ect pest population is high.	
Gardenias	Tea scales, Whiteflies	1 tsp. per gal. of water	
		(1.75 fl. ozs. per	
0 1		10 gals. of water)	
Gerberas	Thrips	1 tsp. per gal. of water	
		(1.75 fl. ozs. per 10 gals. of water)	
Gladiolus	Aphids, Thrips	1 tsp. per gal. of water	
Ciddiolus	Apriliao, minpo	(1.75 fl. ozs. per	
		10 gals. of water)	
		(Continued)	
		,	

### **ORNAMENTAL PLANTS** (Cont.)

Plant	Pest Controlled	Rate of Application
Hackberry	Hackberry budgall	Soil Injection: 1 part to 3
•	psyllid, Hackberry	parts dilution
	nipple gall psyllid	
	SPECIFIC DIRECTION	S: Use a 1:3 dilution (1 par
	of this product to 3 parts water). Apply using a low-	
	pressure injector. Inject 1 fl. oz. of the dilution 6	
		each one-half inch of trun
	diameter. Make insertions within dripline of tree.	
	Apply prior to bud break. Do not apply to plants that have not been established for at least 3 years.	
		<u>*</u>
Hemlocks	Mites, Scales	1 tsp. per gal. of water
		(1.75 fl. ozs. per
		10 gals. of water)
Holly (English	Leafminers, Mites,	1 tsp. per gal. of water
& American,	Soft scale	(1.75 fl. ozs. per
not Burford variety)	ODEOUEIO DIDEOTIONI	10 gals. of water)
variety)	SPECIFIC DIRECTIONS: For Leafminers, apply in Spring when Leafminer flies first appear or in early	
		arvae in infested leaves.
Hanavariakla	Honeysuckle aphid	
Honeysuckle	Honeysuckie apniu	Soil Injection: 1 part to 3 parts dilution
	SDECIEIC DIDECTION	parts dilution IS: Use a 1:3 dilution (1 fl
		every 3 fl. ozs. of water)
	Apply using a low-pressure injector. Inject 1.25 fl. ozs. of the dilution 6 inches below ground for each	
	one-half inch of trunk diameter. Do not apply to	
	plants that have not bee	en established for at least 3
	years.	
Iris	Aphids, Iris borer,	2 tsps. per gal. of water
	Thrips	(3.5 fl. ozs. per
		10 gals. of water)
	SPECIFIC DIRECTIONS: For Borer control, spray	
	when new leaves are 5	to 6 inches tall.
Oak	Golden oak scale	2 tsps. per gal. of water
		(3.5 fl. ozs. per
		10 gals. of water)
Pines,	Aphids, Bagworms,	2 tsps. per gal. of water
Juniper	European pine shoot moth, Midges, Mites,	(3.5 fl. ozs. per 10 gals. of water)
	Zimmerman pine	10 gais. of water)
	moth	
	Loblolly pine sawfly,	3.5 tsps. per gal. of wate
	Nantucket pine tip	(6 fl. ozs. per
	moth	10 gals. of water)
Pinyon pine	Pinyon needle scale	2.5 tsps. per gal. of wate
,		(4.3 fl. ozs. per
		10 gals. of water)
	0000000 0000000	
	SPECIFIC DIRECTION	NS: Apply spray to eq
	masses at the base of bark and crotches that	the trees and to all rough can be reached from the
	masses at the base of bark and crotches that ground. Make this bark	the trees and to all rough can be reached from the application when crawlers
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the	the trees and to all rough can be reached from the application when crawler he eggs. Use hydraulic of
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do r	the trees and to all rough can be reached from the application when crawler he eggs. Use hydraulic of not spray leaves or needle
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do resince phytotoxicity may	the trees and to all rough can be reached from the application when crawlers he eggs. Use hydraulic of not spray leaves or needles result.
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do risince phytotoxicity may Pinyon "Pitch mass"	the trees and to all rough can be reached from the application when crawler the eggs. Use hydraulic of not spray leaves or needle result.  Soil Injection: 1 part to 2
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do risince phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle	the trees and to all rough can be reached from the application when crawler the eggs. Use hydraulic of not spray leaves or needle result.
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do resince phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth	the trees and to all rought can be reached from the application when crawlers he eggs. Use hydraulic on spray leaves or needles result.  Soil Injection: 1 part to 3 parts dilution
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do risince phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth	the trees and to all rought can be reached from the application when crawlers he eggs. Use hydraulic of spray leaves or needlest result.  Soil Injection: 1 part to 3 parts dilution  IS: Use a 1:3 dilution (1 files.)
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do risince phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth SPECIFIC DIRECTION oz. of this product for	the trees and to all rought can be reached from the application when crawlers he eggs. Use hydraulic of spray leaves or needlest result.  Soil Injection: 1 part to 3 parts dilution  IS: Use a 1:3 dilution (1 flevery 3 fl. ozs. of water)
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do not since phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth SPECIFIC DIRECTION oz. of this product for Apply using a low-president.	the trees and to all rought can be reached from the application when crawlers he eggs. Use hydraulic of spray leaves or needless result.  Soil Injection: 1 part to 3 parts dilution  IS: Use a 1:3 dilution (1 flevery 3 fl. ozs. of water) source injector. Inject 1.5 flexible from the control of the control
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do not since phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth SPECIFIC DIRECTION oz. of this product for Apply using a low-presozs. of the dilution 6 incompared that the bark shall be said to be sai	the trees and to all rought can be reached from the application when crawlers he eggs. Use hydraulic of spray leaves or needless result.  Soil Injection: 1 part to 3 parts dilution  IS: Use a 1:3 dilution (1 flevery 3 fl. ozs. of water) source injector. Inject 1.5 floches below ground surface.
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do not since phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth SPECIFIC DIRECTION oz. of this product for Apply using a low-presozs. of the dilution 6 incompared to the same product for accept 1 inch of trunk	the trees and to all rought can be reached from the application when crawlers he eggs. Use hydraulic of spray leaves or needless result.  Soil Injection: 1 part to 3 parts dilution  IS: Use a 1:3 dilution (1 flevery 3 fl. ozs. of water) source injector. Inject 1.5 floches below ground surface diameter. Make insertions
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do not since phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth SPECIFIC DIRECTION oz. of this product for Apply using a low-presozs. of the dilution 6 into for each 1 inch of trunk within dripline of tree. F	Soil Injection: 1 part to 3 parts dilution  IS: Use a 1:3 dilution (1 fl every 3 fl. ozs. of water) ssure injector. Inject 1.5 fl ches below ground surface diameter. Make insertions for Spindle gall midge and
	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do not since phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth SPECIFIC DIRECTION oz. of this product for Apply using a low-presozs. of the dilution 6 into for each 1 inch of trunk within dripline of tree. Fip moth, apply in mid	the trees and to all rought can be reached from the application when crawlers he eggs. Use hydraulic of spray leaves or needless result.  Soil Injection: 1 part to a parts dilution  IS: Use a 1:3 dilution (1 flevery 3 fl. ozs. of water) source injector. Inject 1.5 floches below ground surface diameter. Make insertions for Spindle gall midge and to late Spring. For Pinyolic and to late Spring. For Pinyolic applications of the second surface to late Spring.
Poinsettia	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do not since phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth SPECIFIC DIRECTION oz. of this product for Apply using a low-presozs. of the dilution 6 incompleted for each 1 inch of trunk within dripline of tree. Find moth, apply in mid borer, make application	the trees and to all rought can be reached from the application when crawlers he eggs. Use hydraulic of the eggs. It is a soft to spray leaves or needlest result.  Soil Injection: 1 part to spray dilution  IS: Use a 1:3 dilution (1 flevery 3 fl. ozs. of water) the every 3 fl. ozs. of water) the every 3 fl. ozs. of water injector. Inject 1.5 fleves below ground surface to diameter. Make insertions of Spindle gall midge and to late Spring. For Pinyon in early Summer.
Poinsettia	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do not since phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth SPECIFIC DIRECTION oz. of this product for Apply using a low-presozs. of the dilution 6 into for each 1 inch of trunk within dripline of tree. Fip moth, apply in mid	the trees and to all rought can be reached from the application when crawlers he eggs. Use hydraulic of spray leaves or needless result.  Soil Injection: 1 part to a parts dilution  IS: Use a 1:3 dilution (1 flevery 3 fl. ozs. of water) source injector. Inject 1.5 floches below ground surface diameter. Make insertions for Spindle gall midge and to late Spring. For Pinyolic and to late Spring. For Pinyolic applications of the second surface to late Spring.
Poinsettia	masses at the base of bark and crotches that ground. Make this bark start to emerge from the backpack sprayer. Do not since phytotoxicity may Pinyon "Pitch mass" borer, Pinyon spindle gall midge, Tip moth SPECIFIC DIRECTION oz. of this product for Apply using a low-presozs. of the dilution 6 interest of the dilution	the trees and to all rought can be reached from the application when crawlers he eggs. Use hydraulic of the eggs. It is a soft to spray leaves or needlest result.  Soil Injection: 1 part to spray dilution  IS: Use a 1:3 dilution (1 flevery 3 fl. ozs. of water) assure injector. Inject 1.5 flethes below ground surface diameter. Make insertions of the eggs of the egg

### **ORNAMENTAL PLANTS** (Cont.)

Plant	Pest Controlled	Rate of Application	
Roses	Aphids, Leafhoppers, 1 tsp. per gal. of v		
	Thrips	(1.75 fl. ozs. per	
		10 gals. of water)	
	SPECIFIC DIRECTIONS: Foliar Spray: Apply 2		
	sprays 6 weeks apart the first year followed by		
	annual applications soon after the first growth		
	begins in the Spring. <b>Soil Drench:</b> Apply as a Soil		
	Drench around the base of plants in early Spring		
	at the rate of 2 tablespoons (1 fl. oz.) per gallon of		
	water per plant.		
Taxus	Fletcher scale,	2 tsps. per gal. of water	
(Upright or	Mealybugs, Mites	(3.5 fl. ozs. per	
Spreading		10 gals. of water)	
yew)			

## STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. **PESTICIDE STORAGE**: Store in a cool, dry, well ventilated area. Avoid high temperatures. Do not store below 45°F.

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

### **CONTAINER DISPOSAL:**

Nonrefillable Container (rigid material; less than 5 gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container one-fourth full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration.

Nonrefillable Container (rigid material; 5 gallons up to < 250 gallons): Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container one-fourth full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Dispose of empty container in a sanitary landfill or by incineration.

Refillable Container (≥ 250 gallons & Bulk): Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

Dispose of empty container in a sanitary landfill or by incineration.

### WARRANTY—CONDITIONS OF SALE

OUR DIRECTIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically directed and other influencing factors in the use of this product are beyond the control of the Seller.

To the extent consistent with applicable law, Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith. To the extent consistent with applicable law, in no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

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