



# PRECAUTIONARY STATEMENTS

## HAZARDS TO HUMANS & DOMESTIC ANIMALS

### DANGER

CORROSIVE. Causes irreversible eye and skin damage. May be fatal if swallowed, inhaled or absorbed through the skin. May cause allergic skin reaction. Do not get in eyes, on skin, or on clothing. Do not breathe vapor or spray mist.

### STATEMENT OF PRACTICAL TREATMENT: Naled is an organophosphate, cholinesterase inhibitor.

**If in eyes:** Immediately hold eyelids open and flush with a steady, gentle stream of water for 15 minutes. Get medical attention immediately.

**If on skin:** Wash with plenty of soap and water. Get medical attention immediately.

**If swallowed:** ~~Drink a large quantity of milk, egg whites, gelatin solution, or if these are not available, drink large quantities of water. Avoid alcohol. Contact a physician, Poison Control Center or emergency center. Do not induce vomiting. Drink 1 or 2 glasses of water (or milk) and induce vomiting by touching the back of the throat with finger. If possible contact a physician, Poison Control Center or emergency center before inducing vomiting. Do not induce vomiting or give anything by mouth to an unconscious person. Take person and product container to the nearest medical emergency treatment center.~~

**If inhaled:** Remove victim to fresh air. If not breathing, give artificial respiration. Get medical attention immediately.

**Note to Physicians:** Emergency Information - call 1-800-892-0099. Naled is a cholinesterase inhibitor. Measurement of blood cholinesterase activity may be useful in monitoring exposure. If signs of cholinesterase inhibition appear, atropine sulfate is antidotal. 2-PAM (Protopam) is also antidotal and may be used in conjunction with atropine, but should not be used alone. Probable mucosal damage may contraindicate the use of gastric lavage.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

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

**Applicators and other handlers must wear:** coveralls over long-sleeved shirt and long pants, chemical-resistant gloves, such as barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥ 14 mils and viton ≥ 14 mils, chemical-resistant footwear plus socks, protective eyewear, chemical-resistant headgear for overhead exposure, chemical-resistant apron when cleaning equipment, mixing, or loading, and a respirator with either an organic-vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approved number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approved number prefix TC-14G).

**Exception:** When applying to hot pipes in greenhouses or entering vapor-treated greenhouses during application or before ventilation is complete, the protective eyewear must be goggles, unless a full-face respirator is worn.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE may be reduced or modified as specified in the WPS.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

**USER SAFETY RECOMMENDATIONS:**

Users should:

- \* Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- \* Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- \* Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish, aquatic invertebrates, and wildlife. For terrestrial uses, 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 apply within 24 hours following rainfall, or irrigation, or in areas where intense or sustained rainfall is forecasted to occur within 24 hours following application. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwater or rinsate.

This product is highly toxic to bees exposed to direct treatment on blooming crops or weeds. Do not apply this product or allow to drift to blooming crops or weeds while bees are actively visiting the treatment area.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

**DIRECTIONS FOR USE**

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

**READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.**

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, 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), 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 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.

**Entry Restrictions:**

~~Outdoors and Non-Vapor Treatments in Greenhouses:~~ Do not enter or allow worker

entry into treated areas during the restricted-entry interval (REI) of 24 hours. The REI is 48 hours for crops treated with 1 pint of product per acre or less, and 72 hours for crops treated with rates higher than 1 pint per acre.

**Vapor Treatment in Greenhouses:** Entry by any person - other than a correctly trained and equipped handler who is performing a WPS-defined handling task - is PROHIBITED in the entire enclosed area from the start of application until one of the WPS ventilation criteria has been met. After ventilation is completed, do not enter or allow worker entry into the entire enclosed area during the restricted-entry interval (REI) of 24 hours, except as allowed by the WPS.

**PPE for Entry During the Restricted Period:**

PPE for early entry to treated areas (1) outdoors, or (2) in non-vapor treated greenhouses, or (3) in vapor-treated greenhouses after ventilation is complete - 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 barrier laminate, butyl rubber ≥ 14 mils, nitrile rubber ≥ 14 mils and viton ≥ 14 mils, chemical-resistant footwear plus socks, protective eyewear, and chemical-resistant headgear for overhead exposure.

PPE for early entry by handlers into vapor-treated greenhouses before WPS ventilation criteria have been met is listed in the "Hazards to Humans and Domestic Animals" section of this labeling.

**NON-AGRICULTURAL USE REQUIREMENTS**

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses.

Keep unprotected persons out of the operating areas or vicinity where there may be danger of drift.

Do not enter treated areas prior to 24 hours after application without protective clothing (does not apply to uses for adult mosquito control, or fly control, or rangeland pest control).

**DISCLAIMER, CONDITIONS OF SALE,  
LIMITED WARRANTY  
AND LIMITATION OF LIABILITY**

**IMPORTANT:** Read the entire Label including this Disclaimer, Limited Warranty and Limitation of Liability before using this product. If the terms are not acceptable, return the unopened product within 15 days of purchase.

**RISKS OF USING THIS PRODUCT**

It is impossible to eliminate all risks associated with the use of this product. Such risks include, but are not limited to, injury to plants and crops to which this product is applied, lack of control of the target pests or weeds, resistance, injury caused by drift, and injury to rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, moisture conditions, irrigation practices, presence of other materials, cultural practices or the manner of use or application, all of which are factors beyond the control of Valent. All such risks shall be assumed by the Buyer.

Valent shall not be responsible for losses or damages resulting from use of this product in any manner not set forth on the label. User assumes all risks associated with the use of this product in any manner or under conditions not specifically directed or approved on the label.

**LIMITED WARRANTY**

Valent warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the label, under average use conditions, when used strictly in accordance with the label and subject to the Risks of Using This Product described above.

**DISCLAIMER OF ALL OTHER WARRANTIES**

**VALENT MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR OF MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY.** No agent or representative of Valent or Seller is authorized to make or create any other express or implied warranty.

**LIMITATION OF LIABILITY**

In no event shall Valent or Seller be liable for any incidental, consequential, indirect or special damages resulting from the use or handling of this product. **THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE MAXIMUM LIABILITY OF VALENT OR SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT SHALL BE THE RETURN OF THE PURCHASE PRICE OF THIS PRODUCT OR, AT THE ELECTION OF VALENT OR SELLER, THE REPLACEMENT OF THIS PRODUCT.**

**NO AMENDMENTS**

Valent and Seller offer this product, and Buyer and User accept it, subject to the foregoing Disclaimer, Conditions of Sale, Limited Warranty and Limitation of Liability, which may not be modified by any oral or written agreement.

**PROMPT NOTICE OF CLAIM**

Valent must have prompt notice as soon as Buyer or User has reason to believe they may have a claim (not to exceed twenty-one days from date of application) so that an immediate inspection of the affected property and growing crops can be made. Unless Buyer and Users shall promptly notify Valent of any claims, they shall be barred from obtaining any remedy.

**TANK MIXES**

**NOTICE:** Tank mixing or use of this product with any other product which is not specifically and expressly authorized by the label shall be the exclusive risk of user, applicator and/or application advisor.

Read and follow the entire label of each product to be used in the tank mix with this product.

**GENERAL INSTRUCTIONS**

Do not apply this product through any type of irrigation system.

DIBROM 8 Emulsive is a short residual contact insecticide for control of insect and mite adults and larvae present at the time of application. DIBROM 8 Emulsive is for use in agriculture, commercial pest control and public health or pest abatement programs. Not for homeowner use.

**APPLICATION TIMING:** Begin application at first sign of insects. Repeat as necessary. Repeat applications may be made up to the maximum seasonal amount indicated, but may not be made at less than 7 day intervals.

Do not apply within 4 days of harvest unless otherwise noted.

**APPLICATION EQUIPMENT:** This product may be applied by ground or aerial spray equipment.

Aerial application must be made with closed cockpit aircraft. Do not use backpack spray equipment when treating agricultural crops. See below for spray drift management precautions and recommendations.

**MIXING DIRECTIONS:** Add to spray tank when 1/4 to 1/2 full with agitator running and maintain agitation until spraying is completed. Make new dilution for each use. Do not use with highly alkaline materials such as lime or bordeaux. Wash metal equipment thoroughly after use to avoid corrosion.

**SPRAY VOLUME:** USE DESIGNATED AMOUNT OF PRODUCT IN THE FOLLOWING GALLONS WATER PER ACRE UNLESS OTHERWISE NOTED:

- **GROUND APPLICATION - Vegetables and Field Crops - 30 to 250 gals.** ~~Cotton - 3 to 20 gals.~~  
~~Deciduous Fruit Crops - 60 to 800 gals.~~ ~~Citrus - 100 to 3,000 gals.~~ (On Young Fruit Plantings - Use a minimum of 15 gals. water per acre).
- **AIR APPLICATION - Vegetables and Field Crops - 3 to 10 gals.**

**CROP RESPONSE:** A CROP RESPONSE (i.e. SPOTTING, BRONZING, OR LOCALIZED BURNING) CAN OCCUR UNDER SOME CLIMATIC CONDITIONS, SUCH AS, BUT NOT LIMITED TO, SLOW DRYING AND HIGH HUMIDITY OR STRESS CAUSED BY DROUGHT OR HIGH TEMPERATURE. SUSCEPTIBLE CROPS INCLUDE, BUT ARE NOT LIMITED TO, BROCCOLI, BRUSSELS SPROUTS, CABBAGE, CAULIFLOWER, COLLARD, KALE, CELERY, COTTON, EGGPLANTS, PEPPERS, GRAPES, MELONS, STRAWBERRIES, SUMMER SQUASH, TREES AND OTHER ORNAMENTAL PLANTS. USER SHOULD APPLY THIS MATERIAL WITH CAUTION.

THIS PRODUCT SHOULD NOT BE TANK MIXED WITH OTHER PESTICIDES, SURFACTANTS OR FERTILIZERS WITHOUT FIRST TESTING THE TANK MIX ON A SMALL AREA OF THE CROP AND OBSERVING THE CROP FOR INJURY FOR 3 TO 5 DAYS AFTER APPLICATION.

THIS PRODUCT SHOULD NOT BE APPLIED TO ORNAMENTALS WITHOUT FIRST APPLYING THE PRODUCT TO A SMALL AREA OF THE CROP AND OBSERVING THE CROP FOR INJURY FOR 3 TO 5 DAYS AFTER APPLICATION.

**SPRAY DRIFT MANAGEMENT:** AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR. The interaction of many equipment and weather-related factors determine the potential for spray drift. The applicator is responsible for considering all these factors when making application decisions.

**OBSERVE THE FOLLOWING PRECAUTIONS WHEN MAKING ANY APPLICATION FOR AGRICULTURAL CROP PEST CONTROL IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES; RESERVOIRS; RIVERS; PERMANENT STREAMS, MARSHES, OR NATURAL PONDS; ESTUARIES AND COMMERCIAL FISH FARM PONDS.**

**General precautions (aerial, ground and air-assisted/airblast applications):**

- All aerial, ground and air-assisted/airblast application equipment must be properly maintained and calibrated using water as carrier.
- Do not cultivate within 10 feet of the aquatic area so as to allow growth of a vegetative filter strip to alleviate drift, and mitigate runoff.
- Use the largest droplet size consistent with pest control. Formation of very small drops may be minimized by (1) using a nozzle type designed for the intended application, (2) selecting high flow rate nozzles, (3) avoiding spray pressure which exceeds the nozzle manufacturer's recommendation, (4) using the minimum number of nozzles that provide uniform coverage, and (5) orienting nozzles away from the air stream as much as possible (for aerial and air assisted/airblast application). Do not increase spray volume by increasing spray pressure.
- Risk of exposure to aquatic areas can be reduced by avoiding applications when wind direction is toward the sensitive areas.

- When making applications in low relative humidity, set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

**General precautions (aerial applications only):** The first two drift management requirements listed below must be followed to reduce off-target movement from aerial applications to agricultural field crops. These requirements do not apply to forestry applications or public health uses. Where states have more stringent requirements, it is the operator's responsibility to be aware of these and to comply.

- NOZZLES MUST ALWAYS POINT BACKWARD PARALLEL WITH THE AIR STREAM, AND NEVER DISCHARGE DOWNWARDS MORE THAN 45 DEGREES ON FIXED WING AIRCRAFT OR FORWARD OF THE PREVAILING AIR FLOW ON ROTARY WINGED AIRCRAFT.
- THE DISTANCE OF THE OUTERMOST NOZZLES ON THE BOOM MUST NOT EXCEED 3/4 THE LENGTH OF THE WINGSPAN OR ROTOR.
- Do not apply this product as an ultralow volume (ULV) spray (< 1/2 gallon per acre), or in any carrier other than water.
- For some use patterns, reducing the effective boom length to less than 3/4 of the wingspan length may further reduce drift without reducing swath width.
- Aerial applications should not be made at a height greater than 10 feet above the top of the target plants unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.
- Drift potential is lowest between wind speeds of 2 - 10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph if variable wind direction and high inversion potential exist. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.
- Applications should not occur during local, low level temperature inversions. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Inversions are characterized by stable air and increasing temperatures with altitude. Their presence can be indicated by ground fog, or, by the movement of smoke that layers and moves laterally in a concentrated cloud (under low wind conditions). The applicator may use a smoke generator or other smoke source to determine whether an inversion is present.

**Precautions specific to field and vegetable crops (beans, broccoli, Brussels sprouts, cabbage, cauliflower, celery, chard, collards, cotton, eggplant, hops, kale, melons, peas, peppers, safflower, spinach, strawberry, summer squash, and sugar beets):**

- **Ground Application:** Do not apply by ground within 25 feet of lakes; reservoirs; rivers; permanent streams, marshes, or natural ponds; estuaries and commercial fish farm ponds, where wind is blowing or gusting toward these areas.
- **Aerial Application:** Do not apply by air within 150 feet of lakes; reservoirs; rivers; permanent streams, marshes, or natural ponds; estuaries and commercial fish farm ponds, where wind is blowing or gusting toward these areas.

**Precautions specific to air assisted (airblast, mist blower, etc.) applications to tree and vine crops (almond, citrus, grape, peach, and walnut):**

- Do not apply by air-assisted/airblast application to almonds or peaches (dormant / delayed dormant use) within 100 feet of lakes; reservoirs; rivers; permanent streams, marshes, or natural ponds; estuaries and commercial fish farm ponds, where wind is blowing or gusting toward these areas.
- Do not apply by air-assisted/airblast application to grapes, citrus or walnuts within 50 feet of

lakes; reservoirs; rivers; permanent streams, marshes, or natural ponds; estuaries and commercial fish farm ponds, where wind is blowing or gusting toward these areas.

- Spray the outside two rows using nozzles directed toward the inside of the orchard/vineyard only. Shut off nozzles when turning at the ends of rows. Further reduction of spray drift may be obtained by shutting the nozzles off (manually or automatically) when passing gaps between adjacent or missing trees or vines.
- Sprayer air deflectors and nozzle orientation should be adjusted to ensure that the spray pattern is properly directed toward the desired canopy location. Avoid spraying over the tops of trees by adjusting or turning off the top nozzles. Turn off as many nozzles as necessary to direct spray to small trees.

<b>RECOMMENDED APPLICATIONS - AGRICULTURAL USE</b>
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**ALMONDS (By Ground Only): Peach Twig Borer** - Apply only once during the dormant or delayed-dormant period. Apply 2 to 3 pts. per acre in concentrated or intermediate gallonage spray equipment (minimum 40 gals. water per acre to a maximum 300 gals. water per acre). 1 pt. per 100 gals. of water in high gallonage spray equipment. (300 to 800 gals. water per acre) or 2 to 4 pts. per acre in concentrate ground equipment (40 to 125 gals. water per acre). For intermediate gallonages (125 to 300 gals. water per acre) use 2 to 4 pts. per acre. Combine with dormant oil spray as per instructions on spray oil label. Observe all oil spray precautions.

**BEANS, LIMA BEANS AND PEAS (DRY AND SUCCULENT FORM - Except Cowpeas and Field Peas Grown for Livestock Feeding): Alfalfa Looper, Aphids, Spider Mites, Lygus, Leafminer, Loopers, Nitidulids, Leafhoppers:** For Ground Application - 1 pt. per acre in water to cover. 100 gals. per acre is preferable. For Large Loopers, Stink Bugs - 1 1/2 pts. per acre in water to cover. Aerial Application (California Only) - 1 pt. per acre in minimum of 10 gals. of water per acre. Begin application at first sign of insects. Make only one application per 7 day period. Do not apply more than 4 1/2 pts. per acre per season. For Dry Beans, do not apply less than 1 day before cutting or pulling plants. For remaining crops, do not apply within 1 day of harvest. Do not feed treated vines or hay.

**BROCCOLI, CABBAGE (Includes tight heading varieties of Chinese Cabbage [Napal]), CAULIFLOWER, BRUSSELS SPROUTS, KALE, COLLARDS (By Air or Ground): Imported Cabbageworm, Diamondback Caterpillars, Aphids** - 1 pt. per acre. Looper - 2 pts. per acre. Apply no more than 1 pt. per acre in Florida. Do not apply more than 10 pts. per acre per season. Do not apply within 1 day of harvest. Do not apply when temperature is over 90°F.

**CANTALOUPE, MUSKMELONS (Netted Varieties Only) (By Air or Ground): Aphids, Loopers, Armyworms, Leafhoppers, Leafminers** - Apply 1 pt. per acre in a minimum of 30 gals. of water by ground per acre per acre by ground or in a minimum of 10 gals. of water by air per acre per acre by air. Apply with a spray interval of not less than 7 days. Do not apply more than 2 pts. of product per acre per season. May be used up to one day of harvest. Do not apply within 1 day of harvest. Do not apply when temperature is over 90°F.

**HOPS (By Air or Ground): Armyworms and Hop Aphid** - Apply 1 pt. per acre in 100 to 200 gals. water per acre by ground or in 10 to 20 gals. of water per acre by air at the first sign of insect infestation. Up to 5 applications may be made at 14 day intervals. Do not apply within 7 days of harvest.

**MELONS (Grown for seed only.) (By Air or Ground): Aphids, Loopers, Armyworms, Leafhoppers, Leafminers** - Apply 1 pt. per acre in a minimum of 30 gals. of water by ground per acre per acre by ground or in a minimum of 10 gals. of water by air per acre per acre by air. Apply with a spray interval of not less than 7 days. Do not apply more than 2 pts. of product per acre per season. May be used up to one day of harvest. Do not apply within 1 day of harvest. Do not apply when temperature is over 90°F.

**CELERY (By Air or Ground): Aphids, Loopers, Armyworms, Salt Marsh Caterpillars, Leafminers** - 1 pt. in 50 to 75 gals. water per acre by ground on plants less than 3/4 grown. On larger plants use



1 1/2 pts. in 100 to 500 gals. water per acre. For aerial applications, apply 1 pt. in a minimum of 10 gals. of water per acre on plants less than 3/4 grown. On larger plants, apply 1 1/2 pts. in a minimum of 10 gals. of water per acre. Do not apply more than 7 1/2 pts. per acre per season. Do not apply within 1 day of harvest.

**CHARD (By Ground Only):** Aphids, Loopers, Armyworms, Salt Marsh Caterpillars, Leafminers - 1 1/2 pts. per acre at 7 day spray intervals in 100 - 150 gals. water per acre. Do not apply more than 7 1/2 pts. of product per acre per season. May be used up to 2 days before harvest. Do not apply within 2 days of harvest.

**COTTON (By Air or Ground):** Lygus - 1/2 to 1 pt. per acre. Aphids, Leaf Perforator, Fleahoppers, Armyworms, Bollworms, Loopers and For Suppression of Mites - 1 pt. in 3 - 20 gals. water per acre. Apply at 7 to 10 day intervals while pests persist. **FOR HEAVY OR DIFFICULT TO CONTROL POPULATIONS OF LISTED INSECTS** - 1/2 to 3/4 pt. per acre. Use with other insecticides registered for use on cotton. Do not apply more than 5 pts. per acre per season. Do not apply after first bolls open. Do not graze livestock in treated fields.

**EGGPLANT, PEPPERS (By Air or Ground):** Aphids, Spider Mites, Blister Beetles, Flea Beetles, Leafminers - Apply 1 to 2 pts. per acre at 7 day spray intervals in a minimum of 20 gals. of water by ground per acre per acre by ground or in a minimum of 10 gals. of water by air per acre per acre by air. Apply no more than 1 pt. per acre in Florida. Do not apply more than 6 pts. of product per acre per season. May be used up to one day of harvest. Do not apply within 1 day of harvest. Do not apply when temperature is over 90°F.

**GRAPES (By Ground Only):** Drosophila, Leafhoppers - 1/2 to 2/3 pt. per 100 gals. water (100 to 130 gals. diluted spray per acre depending on size of vines). Use only 1/2 pt. per 100 gals. water on Muscat varieties. Do not apply more than 6 pts. per acre per season. Do not apply within 3 days of harvest. Do not apply when temperature is over 90°F.

**Airblast Application (California Only):** Prebloom - Overwintering Leafhoppers, Thrips; Postbloom - Drosophila, Leafhoppers, Grape Leaf Skeletonizer - 1 pt. in a minimum of 20 gals. water per acre. Do not use on Muscat varieties as fruit injury may occur. Do not apply more than 6 pts. per acre per season. Do not apply within 3 days of harvest. Do not apply when temperature is over 90°F.

**CAUTION: FRESH FRUIT AND CANNERY MARKETS** - Postbloom application can cause fruit russetting.

**ORANGES, LEMONS, GRAPEFRUIT, TANGERINES: (For Ground Application)** - Aphids, Brown Scale Crawlers, Mites, Citrus Cutworms, Leafroller (Tortrix), Orange Tortrix, Thrips - 1 to 2 pts. per acre in 100 to 500 gals. water per acre on mature trees, or in a minimum of 15 gals. per acre on young fruit plantings. Apply no more than 1 pt. per acre in Florida. Apply when pests first appear. Repeat applications may be necessary. Check with local regulatory agency for additional bee restrictions. Do not apply more than 6 pts. per acre per season. Use up to 7 days before harvest. Do not apply within 7 days of harvest.

**(Aerial Application) - Orange Tortrix, Thrips** - 1 to 2 pts. per acre in a minimum of 10 gals. water per acre. Apply no more than 1 pt. per acre in Florida. Apply when pests first appear. Repeat applications may be necessary. Do not apply more than 4 applications per season. Do not apply when bees are active in field. Check with local regulatory agency for additional bee restrictions. Do not apply more than 6 pts. per acre per season. Use up to 7 days before harvest. Do not apply within 7 days of harvest.

**PEACHES (By Ground Only):** Peach Twig Borer - Apply once during the dormant or delayed dormant period. Apply 2 to 3 pts. per acre in concentrated or intermediate gallonage spray equipment (minimum 40 gals. water per acre to a maximum 300 gals. water per acre). 1 pt. per 400 gals. of water in high gallonage spray equipment. (200 to 400 gals. water per acre). For use with concentrated ground equipment (40 to 125 gals. of water per acre) use 2 to 4 pts. per acre. For intermediate gallonages (125 to 300 gals. of water per acre) use 2 to 4 pts. per acre. Combine with dormant oil spray as per instructions on spray oil label. Observe all oil spray precautions. Do not apply more than 4 pts. of product per acre per dormant or delayed dormant season.

**SAFFLOWER (CALIFORNIA AND ARIZONA ONLY - By Air or Ground):** Aphids, Thrips, Lygus - 3/4 pt. per acre. Apply in 3 to 10 gals. water by air. Do not apply more than 2 1/4 pts. per acre per

season. Do not apply within 30 days of harvest.

**SPINACH (By Ground only) (Except Arizona & California):** Aphids, Loopers, Armyworms, Salt Marsh Caterpillars, Leafminers - 1 1/2 pts. per acre at 7 day spray intervals in 100 - 150 gals. water per acre. Do not apply more than 7 1/2 pts. of product per acre per season. May be used up to 2 days before harvest. Do not apply within 2 days of harvest.

**STRAWBERRIES (By Air or Ground):** Leafroller, Spider Mites, Omnivorous Leaf-tier, Spittlebugs, Aphids, Thrips, Lygus - 1 pt. per acre. Do not apply more than 5 pts. per acre per season. May be used 1 day before harvest. Do not apply within 1 day of harvest. Do not apply when temperature is over 90°F.

**SUGAR BEETS (By Air or Ground):** Spider Mites, Leafhoppers - 1 pt. per acre. By air use in 1 to 5 gals. water per acre. Do not apply more than 5 pts. per acre per season. Do not apply within 2 days of harvest.

**SUMMER SQUASH (By Air or Ground):** Cucumber Beetles, Aphids, Spider Mites, Loopers, Thrips, Armyworms - Apply 1 to 2 pts. per acre at 7 day spray intervals in a minimum of 20 gals. of water by ground per acre per acre by ground or in a minimum of 10 gals. of water by air per acre per acre by air. Apply no more than 1 pt. per acre in Florida. Pickleworms, Leafminers - Apply 1 1/2 to 2 pts. per acre at 7 day intervals in a minimum of 20 gals. of water by ground per acre per acre by ground or in a minimum of 10 gals. of water by air per acre per acre by air. Do not apply more than 6 pts. of product per acre per season. May be used up to one day of harvest. Do not apply within 1 day of harvest. Do not apply when temperature is over 90°F.

**WALNUTS (By Air or Ground):** Aphids - 1/2 to 1 pt. in 100 gals. water. Adult Walnut Husk Fly - Apply 1 to 2 pts. per acre in 100 to 200 gals. of water. Walnut Husk Fly Maggots - Apply 2 pts. per acre in 100 to 200 gals. of water. Best control of Walnut Husk Fly maggots is achieved when maggots are newly hatched. Multiple applications may be necessary to control emerging adult flies.

**Aerial Application (California Only) - Aphids, Red-Humped Caterpillar - Apply 1 1/2 to 2 pts. per acre in 10 to 20 gals. of water. Do not apply more than 4 pts. per acre per season. Do not apply within 10 days of harvest. Do not graze livestock in treated orchards.**

**FOREST AND SHADE TREES, ORNAMENTAL SHRUBS, AND FLOWERING PLANTS (By Ground Only):** **CONIFERS** (Arborvitae, Douglas Fir, Fir, Hemlock, Juniper, Pine, Spruce): Suppression of Two-Spot and Red Spider Mites, Aphids, Spittlebugs, Zimmerman Moth, Juniper Webworms, Tussock Moths, Spruce Budworms, Pine Weevils, Adult Sierra Fir and Western Hemlock Bark Borers. **BROADLEAF TREES** (Ash, Birch, Black Walnut, Box Elder, Crabapple, Dogwood, Elm, Evergreen Pear, Flowering Plum and Quince, Locust, Magnolia, Maple, Oak, Sycamore, Willow): Suppression of Two-Spot and Red Spider Mites, Aphids, Armyworms, Bagworms, Adult Bark Borers, Boxelder Bugs, Leafminers, Leafrollers, Loopers, Redhumped Caterpillars, Sawflies, Thrips, Elm Leaf Beetles, Crawler Stages of Soft Brown and Black Scale, Adult Whiteflies, California Oakworms (California only), Spring and Fall Cankerworms, Tent Caterpillars, Fall Webworm, Oak Webworm, Gypsy Moths, and Tussock Moths. **SHRUBS AND FLOWERING PLANTS** (Aucuba, Azalea, Carnations, Dahlia, Hibiscus, Marigolds, Privet, Roses, Stocks, Zinnias): Suppression of Two-Spot and Red Spider Mites, Aphids, Leafminers, Thrips, Adult Whiteflies - 1 pt. in 100 gals. water. Use when infestation is evident, repeat as necessary.

**NOTE:** Do not spray on Ornamental Cherries, Liquidamber, Chrysanthemums or Ornamental Kale as injury may occur.

**GREENHOUSE, VAPOR TREATMENT OF ROSES, OTHER ORNAMENTAL PLANTS:** Spider Mites, Adult Whiteflies, Aphids, Leafrollers, Mealybugs - 1 fl. oz. per 10,000 cu. ft. when plants are dry. Pour recommended amount of product into a disposable metal pan on an unheated hot plate. Applicator must wear full handler personal protective equipment. Hot plate must be activated by an automatic timer after all workers have vacated the greenhouse and the greenhouse is locked. Apply undiluted on heat pipes (or in open pans on hot plates). Apply continuously or to intermittent sections of pipe on each side and on 1 or more of the pipes through center of each range depending upon width. Application to cold pipes should be followed by immediately heating pipes to 160° F. In steam heated houses, close vents for at least 1 hour after pipes are hot. With hot water systems, eClose house for at least 3 hours. Houses Greenhouse may remain closed overnight following treatment. Greenhouse must be ventilated automatically until one of the WPS ventilation criteria have been met, prior to any worker reentry. Chemical resistant gloves must be worn while collecting used metal pans, and pans shall be collected prior to expiration of restricted entry interval. Pans must be disposed of after use according to approved pesticide container disposal procedures. When application is made to hot pipes, wear goggles and approved respirator. ~~Ventilate house before workers re-enter. Wear respirator when entering treated houses to ventilate.~~ Protect hives of bees in houses by covering with plastic or rubber sheet during treatment and until house is ventilated. Spider Mites (Resistant and Non-resistant - Make 3 to 4 treatments at 3 or 4 day intervals. Repeat as necessary. Adult Whiteflies - Make 2 applications at 7 day intervals. Repeat as necessary. Aphids - Apply when aphids appear. Repeat as necessary. Note: Avoid overtreatment and direct application to plants as injury may result. White Butterfly and Golden Rapture Roses, Pink Champagne Chrysanthemums, Green Wandering Jew, Poinsettias and Dutchman's Pipe may be injured by DIBROM vapor.

**RECOMMENDED APPLICATIONS - NON-AGRICULTURAL USE**

**IN AND AROUND FOOD PROCESSING PLANTS, LOADING DOCKS, CULL PILES, REFUSE AREAS, CIDER MILLS (By Ground Only):** Fruit Flies (*Drosophila* sp.) - Use 2 oz. to 2 1/2 gals. water (5 pts. to 100 gals.) as a coarse spray to walls, floors, doorways, windows, refuse and cull piles where insects congregate. Apply every 5 to 7 days as necessary. Do not apply to cull fruit or refuse piles to be fed to livestock. Avoid contamination of feeds, foodstuffs and food processing machinery. Do not use in edible product areas of food processing plants and mills where food is prepared or processed commercially. Do not apply when plants are in operation or when foods are present or exposed. Do not spray surfaces which will come into contact with foods. Cover food containers during spraying.

**RESIDENTIAL AREAS AND SWAMPS (By Air or Ground):** Gnat, Stable Fly (Dog Flies), House Flies - Consult your State Fish and Game Agency before applying this product. It is not necessary to avoid farm buildings. Make application during peak of infestation and repeat as necessary. This rate of application will kill shrimp. Do not apply to tidal or marsh waters, which are important shrimp producing areas.

**AIRCRAFT:** East - Apply 0.8 to 4 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. West - Apply 1.6 to 4 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. **MIST OR COLD FOG:** Use 3 to 5 qts. per 100 gals. water. Calibrate equipment (rate of travel and output) to apply 0.1 to 0.25 lb. technical naled per acre.

**~~CROPS LISTED ON LABEL AND AGRICULTURAL AREAS, WOODLANDS - WIDE AREA PUBLIC PEST CONTROL PROGRAMS SPONSORED BY GOVERNMENTAL ENTITIES (By Air or Ground):~~** Gnat, Stable Fly (Dog Flies), House Flies - Consult your State Fish and Game Agency before applying this product. It is not necessary to avoid farm buildings. Make application during peak of infestation and repeat as necessary. See crop recommendations for use limitations near harvest. This rate of application will kill shrimp. Do not apply to tidal or marsh waters, which are important shrimp producing areas.

**AIRCRAFT:** East - Apply 0.8 to 4 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. West - Apply 1.6 to 4 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. **MIST OR COLD FOG:** Use 3 to 5 qts. per 100 gals. water. Calibrate equipment (rate of travel and output) to apply 0.1 to 0.25 lb. technical naled per acre.

**RESIDENTIAL AREAS, SWAMPS, AND LIVESTOCK PASTURES, INCLUDING DAIRY CATTLE (By Air or Ground): Adult Mosquitoes** - Consult your State Fish and Game Agency before applying this product. It is not necessary to avoid farm buildings. Make applications during peak of infestation and repeat as necessary. See crop recommendation for use limitations near harvest. Treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shore lines may be treated. Direct application to water is prohibited. This rate of application will kill shrimp. Do not apply to tidal or marsh waters which are important shrimp producing areas. **AIRCRAFT: East** - Apply 0.8 to 1.6 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. **West** - Apply 1.6 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. **MIST OR COLD FOG:** Use 3 to 5 qts. per 100 gals. water. Calibrate equipment (rate of travel and output) to apply 0.1 lb. technical naled per acre. Do not make more than one application every 10 days to pasture or other areas where lactating dairy animals are being held.

~~**CROPS LISTED ON LABEL AND AGRICULTURAL AREAS, WOODLANDS - WIDE AREA PUBLIC PEST CONTROL PROGRAMS SPONSORED BY GOVERNMENTAL ENTITIES (By Air or Ground): Adult Mosquitoes**~~ - Consult your State Fish and Game Agency before applying this product. It is not necessary to avoid farm buildings. Make application during peak of infestation and repeat as necessary. See crop recommendation for use limitations near harvest. Treat shrubbery and vegetation where mosquitoes may rest. Shrubby and vegetation around stagnant pools, marshy areas, ponds and shore lines may be treated. Direct application to water is prohibited. This rate of application will kill shrimp. Do not apply to tidal or marsh waters, which are important shrimp producing areas.

**AIRCRAFT: East** - Apply 0.8 to 1.6 fl. oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. **West** - Apply 1.6 oz. per acre diluted with water. Apply 2 to 8 qts. of diluted spray per acre. **MIST OR COLD FOG:** Use 3 to 5 qts. per 100 gals. water. Calibrate equipment (rate of travel and output) to apply 0.1 lb. technical naled per acre.

**FOR REDUCTION OF LIVESTOCK PESTS IN CORRALS, HOLDING PENS, FEEDLOTS AND RANGELANDS CONTAINING DAIRY AND BEEF CATTLE, HOGS, SHEEP, HORSES (By Air or Ground): Gnat, Stable Fly (Dog Fly), House Fly, Mosquito; Horn Fly (Central and North Central U.S.)** - **AERIAL APPLICATION:** Apply 4 fl. oz. diluted with 8 fl. oz. of water (total of 12 fl. oz.) per acre (0.25 lb. technical naled per acre). **GROUND APPLICATION:** Use 5 pts. per 100 gals. water. Apply with a mist blower or similar equipment as a space treatment. Calibrate equipment (rate of travel and output) to apply 0.25 lb. technical naled per acre (approximately 5 gals. of diluted spray).

**OUTSIDE DWELLINGS AND IN LAWNS: Clover Mites, Roaches, Earwigs, Leafhoppers** - Use 1 fl. oz. in 3 gals. water. Apply to turf and to soil surfaces around flowers, shrubs and trees for general pest cleanup.

**RANGELAND (By Air or Ground): Grasshoppers, Range Caterpillars** - 1/2 to 3/4 pt. per acre. **Young Grasshoppers** - 1/2 pt. per acre. **Armyworms** - 1 pt. per acre. **By air:** Use in 1 to 5 gals water per acre. Apply when hoppers hatch is completed. Repeat as necessary. Animals may be present during treatment. Do not graze lactating dairy animals on treated areas.

Do not apply under conditions involving possible drift to food, forage or other plantings that might be damaged or the crops thereof rendered unfit for sale, use or consumption.

## STORAGE AND DISPOSAL

### PROHIBITIONS

Do not contaminate water, food or feed by storage, disposal or cleaning of equipment.  
Open dumping is prohibited.

### STORAGE

Store in cool, dry place.  
Keep pesticide in original container.  
Do not put concentrate or dilute into food or drink containers.  
Not for use or storage in or around the home.  
Do not store diluted spray.

For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-892-0099.

### PESTICIDE DISPOSAL

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

### CONTAINER DISPOSAL

Triple rinse (or equivalent). Do not reuse container. Offer for recycling, or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

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