Valent U.S.A. Corporation

Safari™ 20 SG

Insecticide

FOR FOLIAR AND SYSTEMIC INSECT CONTROL IN ORNAMENTAL PLANTS

For Greenhouse and Outdoor Use Only

GROUP 4A INSECTICIDE

Active Ingredient

Dinotefuran, (RS)-1-methyl-2-nitro-3-(tetrahydro-3-furylmethyl)guanidine

By Wt. 20%

Other Ingredients 80%

Total 100%

EPA Reg. No. 33657-16-59639

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID

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

If swallowed:
Call a poison control center or doctor immediately for treatment advice. Do not induce vomiting unless told to do so by the poison control center or doctor. Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

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

If inhaled:
Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible. Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER
Have the product container or label with you when calling a poison control center or doctor or going for treatment. You may also contact 1-800-892-0099 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

• Long-sleeved shirt and long pants
• Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
• Shoes plus socks

SAFETY REQUIREMENTS

Follow manufacturer’s instructions for cleaning/maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

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 shrimp. 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 when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not dispose equipment washwaters or rinsate into a natural drain or water body.

This product is highly toxic to bees 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 are visiting the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use, pour, spill or store near heat or open flame.

SPRAY DRIFT ADVISORY

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

DIRECTIONS FOR USE

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

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

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, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural insecticides. It contains requirements for training, documentation, 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 enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is:

• Coveralls
• Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride
• Shoes plus socks

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 products on farms, forests, nurseries or greenhouses.

Do not allow others to enter treated areas until sprays have dried.

DISCLAIMER, RISKS OF USING THIS PRODUCT, LIMITED WARRANTY AND LIMITATION OF LIABILITY

IMPORTANT: Read the entire Label including this Disclaimer, Risks of Using this Product, Warranty and Limitation of Liability, before using this product. If the terms are not acceptable THEN DO NOT USE THE PRODUCT; rather, return the unopened product within 15 days of purchase for a refund of the purchase price.

RISKS OF USING THIS PRODUCT

The Buyer and User (referred to collectively herein as “Buyer”) of this product should be aware that there are inherent unintended risks associated with the use of this product which are impossible to eliminate. These 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 of the target pest or weeds to this product, injury caused by the product, injury caused by species or rotational crops caused by carryover in the soil. Such risks of crop injury, non-performance, resistance or other unintended consequences are unavoidable and may result because of such factors as weather, soil conditions, disease, moisture conditions, irrigation practices, condition of the crop at the time of application, presence of other materials either applied in the tank mix with this product or prior to application of this product, cultural practices or the manner of use or application (or a combination of such factors) all of which are factors beyond the control of Valent.

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By applying this product Buyer acknowledges and accepts...
GENERAL INFORMATION

Application to Ornamental Plants:
- **Safari™ 20 SG Insecticide** can be applied as a foliar spray or broadcast spray for insect control in ornamental plants in commercial or residential landscapes, greenhouses and nurseries.
- **Safari** is a systemic product and will be taken up by the root system and foliage and translocated upward throughout the plant. When applied as a foliar spray, the product can provide systemic control of foliage pests.
- Application can be made by foliar sprays or soil applications, including drenches and broadcast foliar sprays.
- When applied as a drench to plants with woody stems, systemic activity will be delayed until the plant can be translocated throughout the plant. Make sure the application is focused to the top of the target plant.
- For outdoor and landscape ornamentals, broadcast applications cannot exceed a total of 2.7 lbs. of product (0.54 lb. active ingredient) per acre per year.

APPLICATION PROCEDURES AND SPRAY EQUIPMENT

**Ground Application:** Spray nozzles should be selected which will provide accurate and uniform spray deposition. Use spray nozzles which provide medium-sized droplets and reduce drift. To help insure accuracy, calibrate sprayer before each use. For information on spray equipment and calibration, consult nozzle manufacturers and/or State Extension Service specialists.

**Applying Safari** using sufficient water volume to provide thorough and uniform coverage. In situations where a dense canopy exists and/or pest pressure is high, use more water volumes. A slight mist or misting may improve spray coverage. Avoid making applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Applications to ornamental plants: Safari can be applied using many different types of application equipment. Apply in sufficient water to ensure coverage of ornamental plants. When making applications to plants with hard-to-wet foliage such as holly or pine, the addition of a spreader/sticker is recommended. If concentrate or mist type spray equipment is used, an equivalent amount of product should be used on the spray area as would be used in a dilute solution. To assure optimum effectiveness, the product must be placed where the growing portion of the target plant can absorb the active ingredient. Applications can be made to foliage or as a soil drench.

**Restrictions:**
- Do not graze treated areas or use clippings from treated areas for feed or forage.
- Do not move or apply to broadcast irrigation systems (individual sprinkler, sprinkler, microirrigation (individual spaghetti tube), drip irrigation, overhead irrigation or motorized (individual sprinkler, sprinkler, microirrigation (individual spaghetti tube), drip irrigation, overhead irrigation or motorized (individual sprinkler, sprinkler, microirrigation (individual spaghetti tube), drip irrigation, overhead irrigation or motorized) irrigation equipment. Do not apply through any other type of irrigation system. If you have questions about calibration, you should contact an Extension Service specialist, equipment manufacturers or other experts. A person knowledgeable of the irrigation 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.

APPLICATION THROUGH IRRIGATION SYSTEMS (CHEMIGATION): Safari alone or in combination with other products which are registered for application through sprinkler irrigation may be applied through irrigation systems which include the soil application method in the irrigation system. Do not apply this product only through microirrigation (individual spaghetti tube), drip irrigation, overhead irrigation or motorized (individual spaghetti tube), drip irrigation, overhead irrigation or motorized (individual spaghetti tube), drip irrigation, overhead irrigation or motorized (individual spaghetti tube), drip irrigation, overhead irrigation or motorized irrigation equipment. Do not apply through any other type of irrigation system. Lack of effectiveness can result from non-uniform distribution of the product. If you have questions about calibration, you should contact an Extension Service Specialist, equipment manufacturers or other experts. A person knowledgeable of the 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.
Using Water from Public Water Systems: DO NOT APPLY SAFARI THROUGHOUT AN IRRIGATION SYSTEM PHYSICALLY CONNECTED TO A PUBLIC WATER SYSTEM.

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 per year. Safari may be applied through irrigation systems which may be supplied by a public water system only if the water from the public water system is 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 to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Any irrigation system using water supplied from a public water system must also meet the following requirements:

**Operating Instructions for All Recommended Types of Irrigation Systems:**

1. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
2. The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the intake side of the injection pump to prevent water source contamination from back flow.
3. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
4. 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.
5. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pressure decreases to the point where pesticide distribution is adversely affected.
6. 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.
7. 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.
8. Do not apply when wind speed favors drift beyond the area intended.

**Calibration and Application Instructions:**

Safari should be applied under the schedule specified in the specific use recommendations, not according to the irrigation schedule unless the events coincide. In general, set the equipment to apply the minimum amount of water per acre. Run the system at 86-90% of the manufacturer’s maximum rated travel speed.

**ORNAMENTAL PLANTS**

For insect control in ornamental plants grown in commercial, industrial, and residential areas, indoor and outdoor nursery and ornamental production.

<table>
<thead>
<tr>
<th>Crop</th>
<th>Pest</th>
<th>Product Rate</th>
<th>Remarks</th>
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<tbody>
<tr>
<td>Ornamental plants including:</td>
<td>Aphids (suppression)</td>
<td>Foliar Spray</td>
<td>For foliar insect control on ornamental plants. Start treatment prior to buildup of high pest populations. If necessary, make a second application after 14-21 days.</td>
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<tr>
<td>Shrubs</td>
<td>Asian cyclid scale</td>
<td></td>
<td>Foliar Spray: 100 gals. of spray mix will treat 20,000 sq. ft. of area.</td>
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<tr>
<td>Ornaments</td>
<td>Florida wax scale</td>
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<tr>
<td>Flowering Plants</td>
<td>Japanese beetles (adults)</td>
<td></td>
<td></td>
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<tr>
<td>Foliage Plants</td>
<td>Leafminers, serpentine</td>
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<tr>
<td>Ground Covers</td>
<td>Mealybugs</td>
<td></td>
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<tr>
<td>Evergreens</td>
<td>Scale (Armored and Soft)</td>
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<tr>
<td>Ornamental Trees</td>
<td>Thrips (suppression)</td>
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<td>Non-Bearing Fruit Trees</td>
<td>Whiteflies</td>
<td></td>
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<td>Non-Bearing Nut Trees</td>
<td>Giant whitefly</td>
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<td>Non-Bearing Vines</td>
<td>Greenhouse whitefly</td>
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<td>Silverleaf whitefly</td>
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<tr>
<td></td>
<td>Aphids</td>
<td>Drench</td>
<td></td>
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<tr>
<td></td>
<td>Asian cyclid scale</td>
<td></td>
<td>Drench: Apply 4 fluid ounces of finished solution per 60° pot. Adjust amount of drench solution for smaller or larger pot size.</td>
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<td></td>
<td>Florida wax scale</td>
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<td></td>
<td>Fungus gnats</td>
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Do not apply more than a total of 2.7 lbs. of Safari (0.54 lb. ai) per acre per season as foliar sprays.

**STORAGE AND DISPOSAL**

**PROHIBITIONS**

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

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**PESTICIDE STORAGE**

Keep pesticide in original container. Do not put concentrate or dilute into food or drink containers. Store in a cool dry place. Do not store diluted spray. For help with any spill, leak, fire or exposure involving this material, call day or night 1-800-392-0099.
PESTICIDE DISPOSAL
Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

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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Manufactured for:
Valent U.S.A. Corporation
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