

# Sanmite®

## Miticide/Insecticide

A wettable powder for commercial use on ornamental plants grown in greenhouses and outdoors

<b>ACTIVE INGREDIENT:</b>	<b>% By Wt.</b>
[2-tert-butyl-5-(4-tert-butylbenzylthio)-4-chloropyridazin-3(2h-one)] .....	75.0%
<b>OTHER INGREDIENTS</b> .....	25.0%
	<b>TOTAL: 100.0%</b>

### KEEP OUT OF REACH OF CHILDREN WARNING/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.)

FIRST AID	
<b>If inhaled</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>If swallowed</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have the person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything to an unconscious person.</li></ul>
<b>If on skin or clothing</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>If in eyes</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>

**HOTLINE NUMBER**

Have the product container or label with you when calling a poison control center or doctor or going for treatment. **FOR MEDICAL EMERGENCIES INVOLVING THIS PRODUCT CALL 1-888-478-0798.**

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS WARNING/AVISO

May be fatal if inhaled. Do not breathe dust or spray mist. For handling activities, use dust/mist-filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C), or a NIOSH approved respirator with N, P, R, or HE pre-filter. Wear long-sleeved shirt and long pants, socks and shoes and waterproof gloves. Harmful if swallowed or absorbed through skin. Avoid contact with skin. Remove contaminated clothing and wash before reuse. Causes moderate eye irritation. Do not get in eyes or on clothing. Wear goggles, face shield, or safety glasses. Wash thoroughly with soap and water after handling.

### PERSONAL PROTECTIVE EQUIPMENT (PPE)

#### Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Protective eyewear
- Shoes plus socks
- For handling activities, use dust/mist filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C), or a NIOSH approved respirator with a N, P, R, or HE pre-filter.
- Chemical-resistant headgear for overhead exposure.

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

**Engineering Controls Statement:** 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 requirements may be reduced or modified as specified in the WPS.

NET CONTENTS \_\_\_\_ POUNDS

EPA Reg. No. 81880-5-10163  
EPA Est. No. 67545-AZ-1



Produced For:  
Gowan Company  
P.O. Box 5569  
Yuma, AZ 85366-5569

## 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 and aquatic invertebrates. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high-water mark. Keep out of lakes, ponds, or streams. Do not contaminate water when disposing of equipment washwaters. Do not apply when weather conditions favor drift from target area. Drift or runoff from treated areas may be hazardous to fish in adjacent sites. This product is toxic to bees. Do not apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Application early in the morning or at dusk is suggested.

## 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.

For end use only. Do not repackage or reformulate without manufacturer's written approval.

All applicable directions, restrictions, precautions and **Notice of Conditions of Sale and Warranty and Liability Limitations** are to be followed. This labeling must be in the user's possession during application.

## AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of **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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear
- For handling activities during handgun applications with direct overhead exposures, wear either a respirator with an organic vapor-removing cartridge with a pre-filter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C) or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-21C).
- For all other exposures, wear a dust/mist-filtering respirator (MSHA/NIOSH approval number prefix TC-21C).

## GENERAL INFORMATION

**SANMITE Miticide/Insecticide** is intended for control of mites and whiteflies on ornamental plants, flowers, and foliage crops. SANMITE provides excellent knockdown and residual control. A good evaluation of performance can generally be made 4-7 days after treatment.

### Crop Tolerance

All crops listed in Table 2. Plant Species Tested for Tolerance to SANMITE are tolerant to SANMITE.

### Mode of Action

SANMITE works primarily through contact action. Treat plants when pests are immature or at a susceptible stage and populations are building, before crop damage occurs.

### Resistance Management

Using SANMITE in successive miticide applications is not recommended. Use SANMITE as part of a sound resistance management program that includes rotation with other treatments having different modes of action.

### Spray Coverage

Apply SANMITE in sufficient water to ensure thorough coverage of foliage. Thorough coverage is required for optimum control. To achieve adequate coverage, use proper spray pressure, nozzles, nozzle spacing, and volume per acre. Consult spray nozzle and accessory guide for information pertaining to proper equipment calibration.

### Cleaning Spray Equipment

Clean spray equipment thoroughly using a strong detergent or commercial sprayer cleaner according to the manufacturer's directions before and after applying this product.

## APPLICATION INSTRUCTIONS

Apply SANMITE at rates recommended in **Table 1. Application Rates**. Avoid drift to all other crops and non-target areas.

**Table 1. Application Rates**

Pest	Rate per 100 gallons of water
Broad mite European Red Mite Southern red mite Tumid mite Twospotted spider mite	4 bags (4 ounces)
Whiteflies	4 – 6 bags (4 – 6 ounces)

**Table 2. Plant Species Tested for Tolerance to SANMITE Miticide/Insecticide\***

COMMON NAME	SCIENTIFIC NAME
Ageratum, Blue Blazer	<i>Ageratum houstonianum</i>
Alurinum Plant	<i>Pilea cadierei</i>
Alyssum	<i>Lobularia maritima</i>
Andromeda, Japanese	<i>Pieris japonica</i> (Thumb) v 'Mountain Fire'
Anthurium	<i>Anthurium</i> spp.
Arborvitea, American	<i>Thuja occidentalis, smaragd</i>
Aster, Rainbow , Solidago	<i>Aster</i> spp.
Azalea	<i>Rhododendron</i> sp.
Baby's Breath	<i>Gypsophila paniculata</i>
Ballon Flower	<i>Platycodon grandiflora</i> v 'Sentimental Blue'
Barberry, Japanese Red Leaf	<i>Berberis thunbergii (atropurpureum)</i>
Begonia	<i>Begonia semperflorens</i>
Blanket Flower	<i>Gaillardia</i> sp. V 'Red Plume'
Bleeding Heart	<i>Dicentra spectabilis</i> (Lem.)
Boxwood, Japanese	<i>Buxus japonica</i>
Butterfly Bush	<i>Buddleia</i> sp. V 'White profusion'
Butterfly Bush	<i>Buddleia davidii</i> Franch.
Caladium	<i>Caladium</i> sp.
Cameilia	<i>Camellia japonica</i>
Carnation, Pallas Londerga Carnation, Pink Candy	<i>Dianthus caryophyllus</i>
Celosia, Dwarf Mixed	<i>Celosia argenta</i>
Charnaedorea Palm	<i>Chamaedorea elegans</i>
Chrysanthemum	<i>Chrysanthemum</i> spp.
Christmas Cactus	<i>Schlumbergera bridgesii</i>
Cimmaron	<i>Medicago sativae</i>
Cinquefoil	<i>Potentilla fruticosa</i> spp. Including 'May white'
Coleus, Scarlet Wizard	<i>Coleus hybridus</i>
Coneflower	<i>Rudbeckia</i> sp. V 'Goldilocks'
Cosmos	<i>Cosmos</i> sp.
Cotoneaster	<i>Coloneaster dammeri</i> C.K. Schneid v 'Coral Beauty'
Cotoneaster	<i>Cotoneaster apiculaius</i> Rehd & E.H. Wils
Cronton, Pictum	<i>Codiaeum variegatum</i>
Cyclamen, Red , White	<i>Cyclamen persicum</i>
Dahlia	<i>Dahlia</i> spp.
Daisy, Shasta	<i>Chrysanthemum maximum</i> Ramond v 'Silver Princess'
Daylily	<i>Llmerocallis</i> spp.
Dianthus, Pink , Telstar Lavender , Telstar White	<i>Dianthus</i> spp.
Dieffenbachia, Dumb cane	<i>Dieffenbachia</i> sp.
Dogwood, Cornelian Cherry	<i>Cornus</i> spp.
Dracaena	<i>Dracaena marginata</i>
Dusty Miller	<i>Centaurea cineraria</i>
Dwarf Winged Euonymus	<i>Euonymus alata</i> (Thumb.) Siebold v. 'Compacta'
Elm	<i>Ulmus</i> spp.
Euonymus	<i>Euonymus</i> spp.
Euonymus, Winged	<i>Euonymus alata</i> (Thumb.) Siebold
Euonymus, Dwarf Winged	<i>Euonymus alata</i> (Thumb.) Siebold v ' Compacta
False Cypress	<i>Chamacyparis pisifera</i>
Fern, Pteris	<i>Pteris biaurita</i>
Fern, Asparagus	<i>Asparagus setaceus</i>
Fern, Maidenhair	<i>Adiantum</i> sp.
Fir, Douglas	<i>Pseudotsuga menziesii</i> (Mirb) Franco
Fir, Fraser	<i>Abies fraseri</i>
Fir, Noble	<i>Abies porcera</i>

COMMON NAME	SCIENTIFIC NAME
Fire Thorn	<i>Pyracantha coccinea</i>
Fuchsia	<i>Fuchsia</i> sp.
Gardenia, August Beauty	<i>Gardenia jasminoides</i>
Geranium, Scarlet Orbit	<i>Geranium</i> sp.
Gerbera Daisy	<i>Gerbera</i> sp.
Gladiolus Gladiolus	<i>Gladiolus x hortulanus</i> L.H. Bailey <i>Gladiolus</i> sp. V 'Nova Lux'
Gloxinia	<i>Sinningia speciosa</i>
Gold Dust Plant	<i>Aucuba japonica</i>
Goldfish plant	<i>Alloplectus nummularia</i>
Hemlock	<i>Tsuga canadensis</i> Carriere
Hibiscus	<i>Hibiscus</i> spp.
Hollyhock	<i>Alcea rosea</i> v ' Apricot'
Holly, Chinese , Burford , Japanese	<i>Hex cornuta</i> <i>Hex cornuta</i> 'Burfordii' <i>Hex crenta</i>
Honeysuckle	<i>Lonicera</i> spp.
Hyacinth, Common	<i>Hyacinthus orientalis</i>
Hydrangea	<i>Hydrangea</i> spp.
Hydrangea-vine	<i>Schizophragma hydrangea</i>
Impatiens, New Guinea , hybrids , Celsia high energy , Sunshine	<i>Impatiens wallerano</i>
Iris, Miniature	<i>Iris</i> spp.
Ivy, Cascade , English , Spade	<i>Hedera helix</i>
Juniper	<i>Juniperus</i> spp.
Kalanchoe	<i>Kalanchoe</i> sp.
Lilac	<i>Syringa patula</i>
Lily, Easter , Calla , Peace , Mauna Loa , Orange pixie	<i>Lilium loniflorum</i> <i>Zantedeschia</i> sp. <i>Spathiphyllum</i> sp. <i>Spathiphyllum</i> sp. <i>Lilium longiflorum</i>
Lobelia	<i>Lobelia</i> spp.
Lupine	<i>Lupinus</i> sp. v 'Russell Blue w/White'
Magnolia	<i>Magnolia</i> spp.
Mandevilla, Pink	<i>Mandevilla</i> sp.
Maple, Sugar	<i>Acer saccharum</i> Marsh
Marigold	<i>Tagetes erecta</i>
Mock Orange	<i>Philadelphus coronaries</i>
Muscari, (Grape Hyacinth)	<i>Muscari</i> spp.
Oak, Pin	<i>Quercus palustris</i> Muenchh
Palm, Parlor (neantha Bella)	<i>Chamaedorea elegans</i>
Pansy	<i>Viola wittrockiana</i>
Pea, Sweet	<i>Lathyrus odoratus</i> v 'Explorer Mixed'
Pear, Bradford	<i>Phyrus calleryana</i> 'Bradford'
Peony	<i>Paeonia lactiflora</i> Pall.
Petunia, Harmony Boy , White Cascade , White Madness	<i>Petunia hybrida</i>
Phlox, Summer	<i>Phlox, paniculata</i>
Photinia, Red Tip	<i>Photinia x fraseri</i>
Piggyback plant	<i>Tolmiea menziesii</i>
Pine, Mugo	<i>Pinus mugo</i> Turra
Pinks (Dianthus)	<i>Dianthus</i> spp.
Pink Splash	<i>Hypoestes phyllostachya</i>
Pittosporum	<i>Pittosporum</i> spp.
Poinsettia	<i>Euphorbia pulcherrima</i>
Ponytail plant	<i>Reaucarnea recurvata</i>
Poppy	<i>Papaver</i> spp.
Pothos	<i>Epipremum aureum</i>
Prayer plant	<i>Maranta leuconeura</i>
Primrose	<i>Primula</i> sp.
Privet	<i>Ligustrum x vicaryi</i>
Redvein Enkianthus	<i>Enkianthus</i> spp.

COMMON NAME	SCIENTIFIC NAME
Rose	<i>Rosa</i> spp.
Rose moss	<i>Portulaca grandiflora</i>
Rhododendron, English Roseum	<i>Rhododendron</i> sp.
Salvia	<i>Salvia splendens</i>
Schefflera	<i>Schefflera actinophylla</i>
Snapdragon	<i>Antirrhinum</i> spp.
Spirea	<i>Spirea</i> spp.
Spruce, Norway Nest	<i>Picea abies nidiformis</i>
Sunflower, Minature	<i>Helianthus annuus</i>
Syngonium	<i>Syngonium podophyllum</i>
Tobacco, Ornamental	<i>Nicotianu</i> spp.
Trumpetereeper	<i>Campsis grandiflora</i>
Tulips	<i>Tulipa</i> spp.
Viburnum, Snowball Bush	<i>Viburnum</i> spp.

COMMON NAME	SCIENTIFIC NAME
Verbena, Blazc , Garden , Lemon , Scarlet Romance	<i>Verbena hybrida</i>
Vinca, Little Blanche , Periwinkle	<i>Vinca</i> spp.
Violet, African	<i>Saintpaulia ionantha</i>
Wandering Jew	<i>Tradescantia albiflora</i>
Wisteria	<i>Wisteria</i> spp.
Yew, Hicks	<i>Taxus x media</i> Rehd v 'Hicksii'
Zinnia, Scarlet Flame , Giant Cactus , Lilliput , Dreamland	<i>Zinnia elegans</i>

#### ADDITIVES

In general, no additives are necessary for effective use of SANMITE.

However, in situations where local conditions such as hard water are a problem, adjuvants or wetting agents may be used to achieve thorough spray coverage.

Do not place water-soluble bags directly into dormant or summer-spray-type oils. PVA pouches are water soluble, not oil soluble. Do not use with nutritional sprays containing boron. Boron will prevent the bags from dissolving in water. Rinse the tank thoroughly before adding any material in PVA bags.

#### Mixing Order

- 1) **Water:** Begin by agitating a thoroughly clean sprayer tank half full of clean water.
- 2) **Products in PVA bags:** Determine the number of water-soluble bags to be used based on **Table 2**. Place the water-soluble bags into the mixing tank. The water-soluble bags dissolve in water and the contents will disperse. Wait until all water-soluble PVA bags have fully dissolved and the product is evenly mixed in the spray tank before continuing.
- 3) **Water-dispersible products:** (dry flowables, wettable powders, suspension concentrates, or suspo-emulsions)
- 4) **Emulsifiable concentrates**
- 5) **Water Soluble Products**
- 6) **Water-soluble additives**
- 7) **Remaining quantity water**

Maintain constant agitation during application. For more information, refer to section **General Tank Mixing Information**.

#### GENERAL TANK MIXING INFORMATION

No tank mixes are specifically recommended with this product. The phytotoxic potential of SANMITE has been assessed on a wide variety of common ornamental plants with no phytotoxicity observed. However, all plant species and their varieties and cultivars have not been tested with possible tank mix combinations, sequential pesticide treatments, and adjuvants and surfactants. Local conditions can also influence crop tolerance and may not match those under which testing has been conducted. Therefore, before using SANMITE, test the product on a sample of the crop to be treated to ensure that a phytotoxic response will not occur as a result of applications.

#### GENERAL RESTRICTIONS AND LIMITATIONS – ALL CROPS

- **Maximum seasonal use rate:** Do not exceed **21.34 ounces** of SANMITE per acre, per year.
- **Restricted Entry Interval (REI): 12 hours**
- Do not enter a treated greenhouse or a treated indoor area without protective equipment for **12 hours** unless one of the following items is completed:
  - 10 air exchanges
  - 2 hours of system ventilation
  - 4 hours of ventilation using vents, windows or other passive ventilation
  - All required PPE is worn.
- **Sequential Treatment:** Do not use SANMITE in successive miticide applications. Use SANMITE in rotation with other treatments having different modes of action.
- Do not apply this product through any type of irrigation system.
- Do not apply this product aerially.
- Do not use SANMITE with nutritional sprays that contain boron.
- Do not apply this product as a smoke, mist, fog, or aerosol.
- Do not repackage or reformulate without manufacturer's written approval. For end use only.

#### CROPS

This product can be used on the following crops:

- **Ornamental plants**
- **Foliage crops**

Pests	
This product can be used on the following pests:	
Common Name	Scientific Name
Broad Mite	<i>Polyphagotarsonemus latus</i>
European red mite	<i>Panonychus ulmi</i>
Southern red mite	<i>Oligonychus ilicis</i>
Tumid mite	<i>Tetranychus tumidus</i>
Twospotted spider mite	<i>Tetranychus urticae</i>
Whitefly, Silverleaf	<i>Benisia argentifolii</i>
Whitefly, Greenhouse	<i>Trialeurodes vaporariorum</i>

#### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Store in a cool, dry place away from heat or open flame. This package contains water-soluble bags inside a foil liner (overwrap). Do not remove the water-soluble bags from the overwrap except for immediate use. If all the water-soluble bags are not used, carefully reseal the overwrap. The water-soluble bags may break if they are exposed to moisture, handled excessively, or handled with wet hands or wet gloves.

**Pesticide Disposal:** Pesticide wastes are acutely hazardous. Wastes resulting from this product may be disposed of on site or at an approved waste disposal facility. Improper disposal of excess pesticide, spray mix, or rinsate is a violation of federal law.

If these wastes cannot be disposed of according to label instructions, contact the state agency responsible for pesticide regulation or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:**

**Water-soluble packaging:** The outer case and inner overwrap packaging of the water-soluble bag should be incinerated or disposed of in a sanitary landfill, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. Do not re-use the empty packaging.

**FOR 24 HOUR EMERGENCY ASSISTANCE (SPILL, LEAK, OR FIRE). CALL CHEMTREC® (800) 424-9300**

#### NOTICE OF CONDITIONS OF SALE AND WARRANTY AND LIABILITY LIMITATIONS

Important: Read the entire Directions for Use and Notice of Conditions of Sale and Warranty and Liability Limitations before using this product. If terms are not acceptable return the unopened container for a full refund.

Our recommendations for use of this product are based on tests believed to be reliable. However, it is impossible to eliminate all risk associated with the use of this product. Crop injury, inadequate performance, or other unintended consequences may result due to soil or weather conditions, off target movement, presence of other materials, method of use or application, and other factors, all of which are beyond the control of Gowan. All such risks shall be assumed by the Buyer and User.

Gowan warrants that this product conforms to the specifications on the label and is reasonably fit for the intended purpose referred to on the label when used in strict conformance with Direction for Use, subject to the above stated risk limitations. GOWAN MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY

BUYER'S OR USER'S EXCLUSIVE REMEDY AND GOWAN'S EXCLUSIVE LIABILITY FOR ANY AND ALL LOSSES, INJURIES OR DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT WHETHER IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, OR ANY OTHER LEGAL THEORY IS STRICTLY LIMITED TO THE PURCHASE PRICE PAID OR REPLACEMENT OF PRODUCT, AT GOWAN'S SOLE DISCRETION.

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