

BASF**Sanmite®**

miticide/insecticide

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

Active Ingredient:

[2-*tert*-butyl-5-(4-*tert*-butylbenzylthio)-4-chloropyridazin-3(2*H*)-one] 75%

Inert Ingredients: 25%

Total 100%

plus water-soluble packaging

EPA Reg. No. 7969-106

EPA Est. No. 67545-AZ-1

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.)

See inside booklet for complete **Precautionary Statements, Statement of Practical Treatment, Directions For Use, and Conditions of Sale and Warranty.**

PRECAUTIONARY STATEMENTS**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

WARNING: 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 a NPR, or HE prefilter. 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.

Statement of Practical Treatment

If inhaled: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If swallowed: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. If person is unconscious, do not give anything by mouth and do not induce vomiting.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If in eyes: Flush eyes with plenty of water. Call a physician if irritation persists.

Note to Physician: This compound does not cause any definitive symptoms that would be diagnostic. No specific antidote is available. Treat the patient symptomatically. In case of medical emergencies, call 1-800-832-HELP.

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 prefilter.
- 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.

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.

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.

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.

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, use dust/mist filtering respirator (MSHA/NIOSH approval numbers prefix TC-21C), or a NIOSH approved respirator with a N, P, R, or HE prefilter.
- Chemical resistant headgear for overhead exposure.

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 repack or reformulate without manufacturer's written approval.

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

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.

In Case of Emergency

In case of large-scale spillage regarding this product, call:

CHEMTREC 800-424-9300
BASF Corporation 800-832-HELP

In case of medical emergency regarding this product, call:

- Your local doctor for immediate treatment.
- Your local poison control center (hospital).
- BASF Corporation (800-832-HELP)

Steps to be taken in case material is released or spilled:

Dike and contain the spill with inert material (sand, earth, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing, and wash affected skin areas with water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

I. General Information

Sanmite® miticide/insecticide is intended for control of mites and whiteflies on ornamental plants, flowers, and foliage crops. **Sanmite** provides excellent knock-down 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.

II. Application Instructions

Apply **Sanmite** at rates recommended in **Table 1. Application Rates**. Avoid drift to all other crops and nontarget areas.

Table 1. Application Rates

Pest	Rate per 100 gallons of water
Broad mite	
European Red Mite	4 bags
Southern red mite	(4 ounces)
Tumid mite	
Two-spotted spider mite	
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>
Aluminum Plant	<i>Pilea cadierei</i>
Alyssum	<i>Lobularia maritima</i>
Anthurium	<i>Anthurium spp.</i>
Arborvitae, American	<i>Thuja occidentalis, smaragd</i>
Aster, Rainbow	<i>Aster sp.</i>
, Solidago	
Azalea	<i>Rhododendron sp.</i>
Barberry, Japanese Red Leaf	<i>Berberis thunbergii</i>
	(<i>atropurpureum</i>)
Begonia	<i>Begonia semperflorens</i>
Boxwood, Japanese	<i>Buxus japonica</i>
Caladium	<i>Caladium sp.</i>
Camellia	<i>Camellia japonica</i>
Carnation, Pallas Londerga	<i>Dianthus caryophyllus</i>
, Pink Candy	
Celosia, Dwarf Mixed	<i>Celosia argenta</i>
Chamaedorea Palm	<i>Chamaedorea elegans</i>
Chrysanthemum	<i>Chrysanthemum spp.</i>
Christmas Cactus	<i>Schlumbergera bridgesii</i>
Cimmaron	<i>Medicago sativa</i>
Cinquefoil	<i>Potentilla fruticosa 'May white'</i>
Coleus, Scarlet Wizard	<i>Coleus hybridus</i>
Cosmos	<i>Cosmos sp.</i>
Croton, Pictum	<i>Codiaeum variegatum</i>
Cyclamen, Red	<i>Cyclamen persicum</i>
, White	
Dahlia	<i>Dahlia spp.</i>
Daylily	<i>Hemerocallis spp.</i>
Dianthus, Pink	<i>Dianthus spp.</i>
, Telstar Lavender	
, Telstar White	
Dieffenbachia, Dumb cane	<i>Dieffenbachia sp.</i>
Dogwood, Cornelian Cherry	<i>Cornus spp.</i>
Dusty Miller	<i>Centaurea cineraria</i>
Dracaena	<i>Dracaena marginata</i>
Elm	<i>Ulmus spp.</i>
Euonymus	<i>Euonymus spp.</i>
False Cypress	<i>Chamaecyparis pisifera</i>
Fern, Pteris	<i>Pteris biaurita</i>
, Asparagus	<i>Asparagus setaceus</i>
, Maidenhair	<i>Adiantum sp.</i>
Fir, Fraser	<i>Abies fraseri</i>
, Noble	<i>Abies porcera</i>
Fire Thorn	<i>Pyracantha coccinea</i>

Common Name	Scientific Name
Fuchsia	<i>Fuchsia sp.</i>
Gardenia, August Beauty	<i>Gardenia jasminoides</i>
Geranium, Scarlet Orbit	<i>Geranium sp.</i>
Gerbera Daisy	<i>Gerbera sp.</i>
Gloxinia	<i>Sinningia speciosa</i>
Gold Dust Plant	<i>Aucuba japonica</i>
Goldfish plant	<i>Alloplectus nummularia</i>
Hibiscus	<i>Hibiscus spp.</i>
Holly, Chinese	<i>Ilex cornuta</i>
, Burford	<i>Ilex cornuta 'Burfordii'</i>
, Japanese	<i>Ilex crenata</i>
Honeysuckle	<i>Lonicera spp.</i>
Hyacinth, Common	<i>Hyacinthus orientalis</i>
Hydrangea	<i>Hydrangea spp.</i>
Hydrangea-vine	<i>Schizophragma hydrangea</i>
Impatiens, New Guinea hybrids	<i>Impatiens wallerana</i>
, Celsia high energy	
, Sunshine	
Iris, Miniature	<i>Iris spp.</i>
Ivy, Cascade	<i>Hedera helix</i>
, English	
, Spade	
Juniper	<i>Juniperus spp.</i>
Kalanchoe	<i>Kalanchoe sp.</i>
Lilac	<i>Syringa patula</i>
Lily, Easter	<i>Lilium longiflorum</i>
, Calla	<i>Zantedeschia sp.</i>
, Peace	<i>Spathiphyllum sp.</i>
, Mauna Loa	<i>Spathiphyllum sp.</i>
, Orange pixie	<i>Lilium longiflorum</i>
Lobelia	<i>Lobelia spp.</i>
Magnolia	<i>Magnolia spp.</i>
Mandevilla, Pink	<i>Mandevilla sp.</i>
Marigold	<i>Tagetes erecta</i>
Mock Orange	<i>Philadelphus coronarius</i>
Muscari, (Grape Hyacinth)	<i>Muscari spp.</i>
Palm, Parlor (Neantha Bella)	<i>Chamaedorea elegans</i>
Pansy	<i>Viola wittrockiana</i>
Pear, Bradford	<i>Pyrus calleryana 'Bradford'</i>
Petunia, Harmony Boy	<i>Petunia hybrida</i>
, White Cascade	
, White Madness	
Phlox, Summer	<i>Phlox paniculata</i>
Photinia, Red Tip	<i>Photinia x fraseri</i>
Piggyback plant	<i>Tolmiea menziesii</i>
Pinks (Dianthus)	<i>Dianthus spp.</i>
Pink Splash	<i>Hypoestes phylllostachya</i>
Pittosporum	<i>Pittosporum spp.</i>
Poinsettia	<i>Euphorbia pulcherrima</i>
Ponytail plant	<i>Beaucarnea recurvata</i>
Poppy	<i>Papaver spp.</i>
Pothos	<i>Epipremnum aureum</i>
Prayer plant	<i>Maranta leuconeura</i>
Primrose	<i>Primula sp.</i>
Privet	<i>Ligustrum x vicaryi</i>
Redvein Enkianthus	<i>Enkianthus spp.</i>
Rose	<i>Rosa spp.</i>
Rose moss	<i>Portulaca grandiflora</i>
Rhododendron, English Roseum	<i>Rhododendron sp.</i>
Salvia	<i>Salvia splendens</i>
Schefflera	<i>Schefflera actinophylla</i>
Snapdragon	<i>Antirrhinum spp.</i>
Spirea	<i>Spirea spp.</i>
Spruce, Norway Nest	<i>Picea abies 'nidiformis'</i>
Sunflower, Miniature	<i>Helianthus annuus</i>
Syngonium	<i>Syngonium podophyllum</i>
Tobacco, Ornamental	<i>Nicotiana spp.</i>
Trumpet creeper	<i>Campsis grandiflora</i>
Tulips	<i>Tulipa spp.</i>
Viburnum, Snowball Bush	<i>Viburnum spp.</i>
Verbena, Blaze	<i>Verbena hybrida</i>
, Garden	
, Lemon	
, Scarlet Romance	
Vinca, Little Blanche	<i>Vinca spp.</i>
, Periwinkle	
Violet, African	<i>Saintpaulia ionantha</i>
Wandering Jew	<i>Tradescantia albiflora</i>
Wisteria	<i>Wisteria spp.</i>
Zinnia, Scarlet Flame	<i>Zinnia elegans</i>
, Giant Cactus	
, Lilliput	
, Dreamland	

III. Additives

In general, no additives are necessary for effective use of **Sanmite® miticide/insecticide**. 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.

IV. 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) **Water-soluble products**
- 5) **Emulsifiable concentrates**
- 6) **Water-soluble additives**
- 7) Remaining quantity water

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

V. 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 BASF has conducted testing. 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.

VI. General Restrictions and Limitations—All Crops

- **Maximum seasonal use rate:** Do not exceed **21.34 ounces of Sanmite® miticide/insecticide** 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

Look inside for complete **Restrictions and Limitations** and **Application Instructions**.

Pests:

This product controls 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>
Two-spotted spider mite	<i>Tetranychus urticae</i>
Whitefly, Silverleaf	<i>Bemisia argentifolii</i>
, Greenhouse	<i>Trialeurodes vaporariorum</i>

CONDITIONS OF SALE AND WARRANTY

The Directions For Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or use of the product in a manner inconsistent with its labeling, all of which are beyond the control of BASF CORPORATION ("BASF") or the Seller. All such risks shall be assumed by the Buyer. BASF warrants that this

product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the **Directions For Use**, subject to the inherent risks, referred to above. BASF MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY OR ANY OTHER EXPRESS OR IMPLIED WARRANTY. IN NO CASE SHALL BASF OR THE SELLER BE LIABLE FOR CONSEQUENTIAL, SPECIAL OR INDIRECT DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT. BASF and the Seller offer this product, and the Buyer and User accept it, subject to the foregoing **Conditions of Sale and Warranty** which may be varied only by agreement in writing signed by a duly authorized representative of BASF.

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