When used as a termiticide, Individuals/Firms must be licensed by the State to apply termiticide products. States may have more restrictive requirements regarding qualifications of persons using this product. Consult the pest control regulatory agency of your State prior to use of this product.

To control pests indoors and outdoors on residential, institutional, public, commercial, and industrial buildings, and lawns, ornamentals, parks, recreational areas and athletic fields.

**ACTIVE INGREDIENT:**

<p>| | |</p>
<table>
<thead>
<tr>
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</thead>
<tbody>
<tr>
<td>Bifenthrin*</td>
<td>7.9%</td>
</tr>
<tr>
<td>OTHER INGREDIENTS</td>
<td>92.1%</td>
</tr>
<tr>
<td>TOTAL</td>
<td>100.0%</td>
</tr>
</tbody>
</table>

*Cis isomers 97% minimum, trans isomers 3% maximum.

Wisdom TC Flowable contains 2/3 pound active ingredient per gallon.

**KEEP OUT OF REACH OF CHILDREN**

**CAUTION**

**FIRST AID**

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

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

- **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 treatment advice.

- **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 treatment advice.

**EMERGENCY INFORMATION**

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

**FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:**

For Medical Emergencies, phone: 1-888-661-4261
For Transportation Emergencies, including spill, leak or fire, phone: CHEMTREC® 1-800-424-9300
For Product Use Information phone: AMVAC® 1-888-462-6822

**NOTE TO PHYSICIAN**

This product is a pyrethroid. If large amounts have been ingested, the stomach and intestine should be evacuated. Treatment is symptomatic and supportive. Digestible fats, oils, or alcohol may increase absorption and so should be avoided.

SEE SIDE/BACK PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS AND DIRECTIONS FOR USE.

EPA Reg. No. 5481-520
EPA Est. No. _________

Net Weight: As Marked on Container
PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if swallowed, inhaled, or absorbed through skin. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)
All pesticide handlers (mixers, loaders and applicators) must wear:
• Long-sleeved shirt and long pants.
• Chemical-resistant gloves.
• Shoes plus socks.

After the product is diluted in accordance with label directions for use, and/or when mixing and loading using a closed spray tank transfer system (such as U-Turn®), or an in-line injector system, all handlers must wear:
• Shirt and pants.
• Shoes plus socks.
• Waterproof gloves.

In addition, all pesticide handlers must wear a respiratory protection device1 when working in a non-ventilated space. All pesticide handlers must wear protective eyewear when working in a non-ventilated space or when applying termiticide by rodding or sub-slab injection.

1 Use one of the following NIOSH approved respirator with any R, P or HE filter, or a NIOSH approved respirator with an organic vapor (OV) cartridge or canister with any R, P, or HE prefilter.

When treating adjacent to an existing structure, the applicator must check the area to be treated, and immediately adjacent areas of the structure, for visible and accessible cracks and holes to prevent any leaks or significant exposures to persons occupying the structure. People present or residing in the structure during application must be advised to remove their pets and themselves from the structure if they see any signs of leakage. After application, the applicator is required to check for leaks. All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy contaminated areas of the structure until the clean-up is completed.

ENVIRONMENTAL HAZARDS
This pesticide is extremely toxic to fish and aquatic invertebrates. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Care should be used when spraying to avoid fish and reptile pets in/around ornamental ponds. To protect the environment, do not allow the pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

Do not apply this product or allow it to drift to blooming crops or weeds if bees are foraging the treatment area

PHYSICAL AND CHEMICAL HAZARDS
Do not apply water-based dilutions of Wisdom TC Flowable to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of the possible shock hazard.
DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.
Do not apply a broadcast application to interior surfaces of homes.
Do not apply by air.
Do not apply in greenhouses, nurseries.
Do not apply this product through any kind of irrigation system.
Not for use on sod farm turf, golf course turf, or grass grown for seed.
Do not water treated area to the point of run-off.
Do not make applications during rain.

Application is prohibited directly into sewers or drains, or to any area like a gutter where drainage to sewers, storm drains, water bodies, or aquatic habitats can occur. Do not allow the product to enter any drain during or after application.

Do not apply directly to impervious horizontal surfaces such as sidewalks, driveways, and patios except as a spot or crack and crevice treatment. During application, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters or surface waters.

All outdoor applications, if permitted elsewhere on this label, must be limited to spot or crack-and-crevice treatments only, except for the following permitted uses, if allowed elsewhere on this label:
1. Applications to soil or vegetation, as listed on this label, around structures;
2. Applications to lawns, turf, and other vegetation, as listed on this label;
3. Applications to the side of a building, up to a maximum height of 3 feet above grade;
4. Applications to underside of eaves, soffits, doors, or windows permanently protected from rainfall by a covering, overhang, awning, or other structure;
5. Applications around potential pest entry points into buildings, when limited to a surface band not to exceed one inch in width;
6. Applications made through the use of a coarse, low pressure spray to only those portions of surfaces that are directly above bare soil, lawn, turf, mulch or other vegetation, as listed on this label, and not over an impervious surface, drainage or other condition that could result in runoff into storm drains, drainage ditches, gutters, or surface waters, in order to control occasional invaders or aggregating pests.

INFORMATION ON THE USE OF THIS PRODUCT

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended only for aesthetic purposes or climatic modifications and being grown in interior plantscapes, ornamental gardens or parks, or lawns and grounds.

The use of this product prevents and controls termite infestations in and around structures and constructions.

The dilute insecticidal emulsion must be adequately dispersed in the soil to establish a barrier between the wood and the termites in the soil. As a good practice: 1) all non-essential wood and cellulose containing materials should be removed from around foundation walls, crawl spaces, and porches; 2) eliminate termite access to moisture by repairing faulty plumbing and/or construction grade. Soil around untreated structural wood in contact with soil should be treated as described below.

To establish an effective insecticidal barrier with this product the service technician must be familiar with current termite control practices such as: trenching, rodding, sub-slab injection, coarse fan spraying of soil surfaces, crack and crevice (void) injection, excavated soil treatment, and brush or spray applications to infested or susceptible wood. These techniques must be correctly employed to prevent or control infestations by subterranean termites such as: Coptotermes, Heterotermes, Reticulitermes and Zootermopsis. The biology and behavior of the species involved should be considered by the service technician in determining which control practices to use to eliminate or prevent the termite infestation.

Choice of appropriate procedures should include consideration of such variable factors as the design of the structure, location of heating, ventilation, and air conditioning (HVAC) systems, water table, soil type, soil compaction, grade conditions, and location and type of domestic water supplies and utilities.

For advice concerning control practices with relation to specific local conditions, consult resources in structural pest control and state cooperative extension and regulatory agencies.
SUBTERRANEAN TERMITE CONTROL

Directions for Use

**Important:** Contamination of public and private water supplies must be avoided by following these precautions: Use anti-backflow equipment or procedures to prevent siphonage of insecticide into water supplies. Do not contaminate cisterns or wells. Do not treat soil that is water saturated or frozen in any conditions where runoff or movement from the treatment area (site) is likely to occur. Consult state and local specifications for recommended distances of wells from treated areas, or if such regulations do not exist, refer to Federal Housing Administration Specifications (H.U.D.) for guidance.

**Note:** Crawl spaces are to be considered inside of the structure.

**Critical Areas:** Critical areas include areas where the foundation is penetrated by utility services, cracks and expansion joints, bath traps and areas where cement constructions have been poured adjacent to the foundation such as stairs, patios and slab additions.

**Structures with Wells/Cisterns Inside Foundations**
Structures that contain wells or cisterns within the foundation of a structure can only be treated using the following techniques:

1. Do not treat soil while it is beneath or within the foundation or along the exterior perimeter of a structure that contains a well or cistern. The treated backfill method must be used if soil is removed and treated outside/away from the foundation. The treated backfill technique is described as follows:
   a. Trench and remove soil to be treated onto heavy plastic sheeting or similar material or into a wheelbarrow.
   b. Treat the soil at the rate of 4 gallons of dilute emulsion per 10 linear feet per foot of depth of the trench, or 1 gallon per 1.0 cubic feet of soil. See “Mixing Directions” section of the label. Mix thoroughly into the soil taking care to contain the liquid and prevent runoff or spillage.
   c. After the treated soil has absorbed the diluted emulsion, replace the soil into the trench.

2. Treat infested and/or damaged wood in place using an injection technique such as described in the “Control of Wood Infesting Insects” section of this label.

**Structures with Adjacent Wells/Cisterns and/or Other Water Bodies**
Applicators must inspect all structures with nearby water sources such as wells, cisterns, surface ponds, streams, and other bodies of water and evaluate, at a minimum, the treatment recommendations listed below prior to making an application.

1. Prior to treatment, if feasible, expose the water pipe(s) coming from the well to the structure, if the pipe(s) enter the structure within 3 feet of grade.

2. Prior to treatment, applicators are advised to take precautions to limit the risk of applying the termiticide into subsurface drains that could empty into any bodies of water. These precautions include evaluating whether application of the termiticide to the top of the footer may result in contamination of the subsurface drain. Factors such as depth to the drain system and soil type and degree of compaction should be taken into account in determining the depth of treatment.

3. When appropriate (i.e., on the water side of the structure), the treated backfill technique (described above) can also be used to minimize offsite movement of termiticide.

Prior to using this technique near wells or cisterns, consult state, local or federal agencies for information regarding approved treatment practices in your area.

**Application Rate:** Use a 0.06% emulsion for subterranean termites. For other listed pests on the label use specific listed rates.

**Mixing Directions:** Mix the termiticide use dilution in the following manner: Fill tank 1/4 to 1/3 full. Start pump to begin by-pass agitation and place end of treating tool in tank to allow circulation through hose. Add appropriate amount of Wisdom TC Flowable. Add remaining amount of water. Let pump run and allow recirculation through the hose for 2 to 3 minutes.

Wisdom TC Flowable may also be mixed into full tanks of water, but requires substantial agitation to ensure uniformity of the emulsion.

To prepare a 0.06% water emulsion, ready to use, dilute 3 quarts of Wisdom TC Flowable with 99.25 gallons of water.

**Mixing:** For the desired application rate, use the chart below to determine the amount of Wisdom TC Flowable for a given volume of finished emulsion:
<table>
<thead>
<tr>
<th>Emulsion Concentration</th>
<th>Amount of Wisdom TC Flowable</th>
<th>Amount of Water</th>
<th>Desired Gallons of Finished Emulsion</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.06%</td>
<td>1 oz.</td>
<td>127 oz.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>5 oz.</td>
<td>4.9 gal.</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>10 oz.</td>
<td>9.9 gal.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>25 oz.</td>
<td>24.8 gal.</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>1.5 qt.</td>
<td>49.6 gal.</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>2.25 qt.</td>
<td>74.4 gal.</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>3 qt.</td>
<td>99.25 gal.</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>4.5 qt.</td>
<td>148.8 gal.</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>6 qt.</td>
<td>198.5 gal.</td>
<td>200</td>
</tr>
<tr>
<td>0.12%*</td>
<td>2 oz.</td>
<td>126 oz.</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td>10 oz.</td>
<td>4.9 gal.</td>
<td>5</td>
</tr>
<tr>
<td></td>
<td>19.5 oz.</td>
<td>9.8 gal.</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>1.5 qt.</td>
<td>24.6 gal.</td>
<td>25</td>
</tr>
<tr>
<td></td>
<td>3 qt.</td>
<td>49.2 gal.</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td>4.5 qt.</td>
<td>73.8 gal.</td>
<td>75</td>
</tr>
<tr>
<td></td>
<td>6 qt.</td>
<td>98.5 gal.</td>
<td>100</td>
</tr>
<tr>
<td></td>
<td>9 qt.</td>
<td>147.7 gal.</td>
<td>150</td>
</tr>
<tr>
<td></td>
<td>3 gal.</td>
<td>197 gal.</td>
<td>200</td>
</tr>
</tbody>
</table>

Common units of measure:
1 pint = 16 fluid ounces (oz.)
1 quart = 2 pints = 4 cups = 32 fluid ounces (oz.)

*For Termite applications, only use this rate in conjunction with the application volume adjustments as listed in the section below or in the foam or underground service application sections.

Application Volume: To provide maximum control and protection against termite infestation apply the specified volume of the finished water emulsion and active ingredient as set forth in the directions for use section of this label. If soil will not accept the labeled application volume, the volume may be reduced provided there is a corresponding increase in concentration so that the amount of active ingredient applied to the soil remains the same.

Note: Large reductions of application volume reduce the ability to obtain a continuous barrier. Variance is allowed when volume and concentration are consistent with label directed rates and a continuous barrier can still be achieved.

Where desirable for pre and post construction treatments, the volume of the 0.12% emulsion may be reduced by 1/2 the labeled volume. See Volume Adjustment Chart below.

Note: When volume is reduced, the hole spacing for subslab injection and soil rodding may require similar adjustment to account for lower volume dispersal of the termiticide in the soil.

<table>
<thead>
<tr>
<th>Volume Adjustment Chart</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rate (% emulsion)</td>
</tr>
<tr>
<td>Volume allowed</td>
</tr>
<tr>
<td>Horizontal (gallons/10 ft.²)</td>
</tr>
<tr>
<td>Vertical (gallons/10 lin. ft.)</td>
</tr>
</tbody>
</table>

After Treatment: All holes in commonly occupied areas into which Wisdom TC Flowable has been applied must be plugged. Plugs must be of a non-cellulose material or covered by an impervious, non-cellulose material.

Pre-Construction Subterranean Termite Treatment

Pre-Construction Treatment: Do not apply at a lower dosage and/or concentration than specified on this label for applications prior to the installation of the finished grade.
The treatment site must be covered prior to a rain event in order to prevent run-off of the pesticide into non-target areas.
Do not allow treatment to runoff from the target area.
Do not apply within 10 feet of storm drains. Do not apply within 25 feet of aquatic habitats (such as, but not limited to, lakes, reservoirs, rivers, permanent streams, marshes or ponds, estuaries and commercial fish farm ponds).
Do not apply on-grade applications when sustained wind speeds are above 10 mph (at application site) at nozzle end height.

When treating foundations deeper than 4 feet, apply the termiticide as the backfill is being replaced, or if the construction contractor fails to notify the applicator to permit this, treat the foundation to a minimum depth of 4 feet after the backfill has been installed. The applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to a minimum depth of 4 feet. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Effective pre-construction subterranean termite control is achieved by the establishment of vertical and/or horizontal insecticidal barriers using 0.06% emulsion of Wisdom TC Flowable. To meet termite proofing requirements, follow the procedures in the latest edition of the Housing and Urban Development Minimum Property Standards.

**Horizontal Barriers**
Create a horizontal barrier wherever treated soil will be covered by a slab, such as footing trenches, slab floors, carports, and the soil beneath stairs and crawl spaces.

For a 0.06% rate, apply 1 gallon of dilution per 10 square feet, or use 1 fluid ounce of Wisdom TC Flowable per 10 square feet in sufficient water (no less than 1/2 gallon or more than 2 gallons) to provide thorough and continuous coverage of the area being treated.

If the fill is washed gravel or other coarse material, it is important that a sufficient amount of dilution be used to reach the soil substrate beneath the coarse fill.

Applications shall be made by a low pressure spray (less than 50 p.s.i.) using a coarse spray nozzle. If slab will not be poured the same day as treatment, cover treated soil with a water-proof barrier such as polyethylene sheeting. This is not necessary if foundation walls have been installed around the treated soil.

**Vertical Barriers**
Vertical barriers must be established in areas such as around the base of foundations, plumbing, utility entrances, back-filled soil against foundation walls and other critical areas.

For a 0.06% rate, apply 4 gallons of dilution per 10 linear feet per foot of depth or 4 fluid ounces of Wisdom TC Flowable per 10 linear feet per foot of depth from grade to top of footing in sufficient water (not less than 2 gallons or more than 8 gallons) to ensure complete coverage.

a) When trenching and rodding into the trench, or trenching, it is important that the emulsion reaches the top of the footing. Rod holes must be spaced so as to achieve a continuous termiticide barrier, but in no case more than 12 inches apart.

b) Care should be taken to avoid soil wash-out around the footing.

c) Trenches need not be wider than 6 inches. Emulsion should be mixed with the soil as it is being replaced in the trench.

d) For a monolithic slab, an inside vertical barrier may not be required.

Hollow block voids may be treated at a rate of 2 gallons of emulsion per 10 linear feet so that the emulsion will reach the top of the footing.

Prior to each application, applicators must notify the general contractor, construction superintendent, or similar responsible party, of the intended termiticide application and intended sites of application and instruct the responsible person to notify construction workers and other individuals to leave the area to be treated during application and until the termiticide is absorbed into the soil.
Post Construction Subterranean Termite Treatment

Use a 0.06% emulsion for post-construction treatment. Post-construction soil applications shall be made by injection, trenching and rodding into the trench or trenching or coarse fan spray with pressures not exceeding 25 p.s.i. at the nozzle. Care should be taken to avoid soil wash-out around the footing.

Do not apply emulsion until location of wells, radiant heat pipes, water and sewer lines and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these elements.

Foundations: For applications made after the final grade is installed, the applicator must trench and rod into the trench or trench along the foundation walls and around pillars and other foundation elements, at the rate prescribed from grade to the top of the footing. When the footing is more than four (4) feet below grade, the applicator must trench and rod into the trench or trench along the foundation walls at the rate prescribed to a minimum depth of four feet. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. However, in no case should a structure be treated below the footing.

Slabs: Vertical barriers may be established by sub-slab injection within the structure and trenching and rodding into the trench or trenching outside at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. Special care must be taken to distribute the treatment evenly. Treatment should not extend below the bottom of the footing.

Treat along the outside of the foundation and where necessary beneath the slab on the inside of foundation walls. Treatment may also be required beneath the slab along both sides of interior footing-supported walls, one side of interior partitions and along all cracks and expansion joints. Horizontal barriers may be established where necessary by long-rod/ing or by grid pattern injection vertically through the slab.

- a) Drill holes in the slab and/or foundation to allow for the application of a continuous insecticidal barrier.
- b) For shallow foundations (1 foot or less) dig a narrow trench approximately 6 inches wide along the outside of the foundation walls. Do not dig below the bottom of the footing. The emulsion should be applied to the trench and soil at 4 gallons of emulsion per 10 linear feet per foot of depth as the soil is replaced in the trench.
- c) For foundations deeper than 1 foot follow rate for basements.
- d) Exposed soil and wood in bath traps may be treated with a 0.06% emulsion.

Basements: Where the footing is greater than 1 foot of depth from grade to the bottom of the foundation, application must be made by trenching and rodding into the trench, or trenching at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth. When the footer is more than four feet below grade, the applicator may trench and rod into the trench, or trench along foundation walls at the rate prescribed for four feet of depth. Rod holes must be spaced to provide a continuous insecticidal barrier, but in no case more than 12 inches apart. The actual depth of treatment will vary depending on soil type, degree of compaction, and location of termite activity. However, in no case should a structure be treated below the footer. Sub-slab injection may be necessary along the inside of foundation walls, along cracks and partition walls, around pipes, conduits, piers, and along both sides of interior footing-supported walls.

Accessible Crawl Spaces: For crawl spaces, apply vertical termiticide barriers at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth from grade to the top of the footing, or if the footing is more than 4 feet below grade, to a minimum depth of 4 feet. Apply by trenching and rodding into the trench, or trenching. Treat both sides of foundation and around all piers and pipes. Where physical obstructions such as concrete walkways adjacent to foundation elements prevent trenching, treatment may be made by rodding alone. When soil type and/or conditions make trenching prohibitive, rodding may be used. When the top of the footing is exposed, the applicator must treat the soil adjacent to the footing to a depth not to exceed the bottom of the footing. Read and follow the mixing and use direction section of the label if situations are encountered where the soil will not accept the full application volume.

1. Rod holes and trenches must not extend below the bottom of the footing.
2. Rod holes must be spaced so as to achieve a continuous termiticide barrier but in no case more than 12 inches apart.
3. Trenches must be a minimum of 6 inches deep or to the bottom of the footing, whichever is less, and need not be wider than 6 inches. When trenching in sloping (tiered) soil, the trench must be stepped to ensure adequate distribution and to prevent termiticide from running off. The emulsion must be mixed with the soil as it is replaced in the trench.

4. When treating plenums or crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

**Inaccessible Crawl Spaces:** For inaccessible interior areas, such as areas were there is insufficient clearance between floor joists and ground surfaces to allow operator access, excavate if possible, and treat according to the instructions for accessible crawl spaces. Otherwise, apply one or a combination of the following two methods:

1. To establish a horizontal barrier, apply to the soil surface, 1 gallon of emulsion per 10 square feet overall using a nozzle pressure of less than 25 p.s.i. and a coarse application nozzle (e.g., Delavan type RD Raindrop, RD-7 or larger, or Spraying Systems Co. 8010LP TeeJet or comparable nozzle). For an area that cannot be reached with the application wand, use one or more extension rods to make the application to the soil. Do not broadcast or powerspray with higher pressures.

2. To establish a horizontal barrier, drill through the foundation wall or through the floor above and treat the soil perimeter at a rate of 1 gallon of emulsion per 10 square feet. Drill spacing must be at intervals not to exceed 16 inches. Many states have smaller intervals, so check state regulations which may apply.

When treating plenums and crawl spaces, turn off the air circulation system of the structure until application has been completed and all termiticide has been absorbed by the soil.

**Masonry Voids:** Drill and treat voids in multiple masonry elements of the structure extending from the structure to the soil in order to create a continuous treatment barrier in the area to be treated. Apply at the rate of 2 gallons of emulsion per 10 linear feet of footing, using a nozzle pressure of less than 25 p.s.i. When using this treatment, access holes must be drilled below the sill plate and should be as close as possible to the footing as is practical. Treatment of voids in block or rubble foundation walls must be closely examined. Applicators must inspect areas of possible runoff as a precaution against application leakage in the treated areas. Some areas may not be treatable or may require mechanical alteration prior to treatment.

All leaks resulting in the deposition of termiticide in locations other than those prescribed on this label must be cleaned up prior to leaving the application site. Do not allow people or pets to contact contaminated areas or to reoccupy the contaminated areas of the structure until clean-up is completed.

**Note:** When treating behind veneer, care should be taken not to drill beyond the veneer. If concrete blocks are behind the veneer, both the blocks and the veneer may be drilled and treated at the same time.

Not for use in voids insulated with rigid foam insulation.

**Excavation Technique:** If treatment must be made in difficult situations, along fieldstone or rubble walls, along faulty foundation walls, and around pipes and utility lines which lead downward from the structure to a well or pond, application may be made in the following manner:

a) Trench and remove soil to be treated onto heavy plastic sheeting or similar material.

b) Treat the soil at the rate of 4 gallons of emulsion per 10 linear feet per foot of depth of the trench. Mix the emulsion thoroughly into the soil taking care to prevent liquid from running off the liner.

c) After the treated soil has absorbed the liquid emulsion, replace the soil in the trench.

**Attention:** When applying Wisdom TC Flowable in a confined area, the user should wear un-vented goggles and a respirator approved by NIOSH during application.

**Foam Applications**
Wisdom TC Flowable emulsion, from 0.06% to 0.12% may be converted to a foam with expansion characteristics from 2 to 40 times.

**Localized Application**

**Foam Applications:** The emulsion may be converted to a foam and the foam used to control or prevent termite infestations.

Depending on the circumstances, foam applications may be used alone or in combination with liquid emulsion applications. Applications may be made behind veneers, piers, chimney bases, into rubble foundations, into block voids or structural voids, under...
slabs, stoops, porches, or to the soil in crawl spaces, and other similar voids.

Foam and liquid application must be consistent with volume and active ingredient instructions in order to ensure proper application has been made. The volume and amount of active ingredient are essential to an effective treatment. At least 75% of the labeled liquid emulsion volume of the product must be applied, with the remaining percent delivered to appropriate areas using foam application. Refer to label and use directions of the foam manufacturer and the foaming equipment manufacturer.

Foam applications are generally a good supplement to liquid treatments in difficult areas, but may be used alone in difficult spots.

**Application Under Slabs or to Soil in Crawl Spaces to Prevent or Control Termites**

Application may be made using Wisdom TC Flowable foam alone or in combination with liquid emulsion. The equivalent of at least 4 gallons (4 ounces of Wisdom TC Flowable concentrate) of 0.06% emulsion per 10 linear feet (vertical barrier), or at least 1 gallon (1 ounce of Wisdom TC Flowable concentrate) of 0.06% emulsion per 10 square feet (horizontal barrier) must be applied either as emulsion, foam, or a combination of both. For a foam only application, apply Wisdom TC Flowable concentrate in sufficient foam concentration and foam volume to deposit 4 ounces of concentrate per 10 linear feet or 1 ounce of concentrate per 10 square feet. For example, 2 gallons of 0.12% emulsion generated as foam to cover 10 linear feet is equal to the application of 4 gallons of 0.06% emulsion per 10 linear feet.

**Sand Barrier Installation and Treatment**

Termites can build mud tubes over treated surfaces as long as they have access to untreated soil and do not have to move Wisdom TC Flowable treated soil. Fill in cracks and spaces with builder’s or play box sand and treat the sand with Wisdom TC Flowable. The sand should be treated as soil following the termiticide rate listed on the Wisdom TC Flowable label.

Retreatment for subterranean termites can only be performed if there is clear evidence of reinfection or disruption of the barrier due to construction, excavation, or landscaping and/or evidence of the breakdown of the termiticide barrier in the soil. These vulnerable or reinfested areas may be retreated in accordance with application techniques described in this product’s labeling. The timing and type of these retreatments will vary depending on factors such as termite pressure, soil types, soil conditions and other factors which may reduce the effectiveness of the barrier.

Annual retreatment of the structure is prohibited unless there is clear evidence that reinfection or barrier disruption has occurred.

**APPLICATION IN CONJUNCTION WITH THE USE OF FIRSTLINE® TERMITE BAITS**

As part of the integrated pest management (IPM) program for termite control, Wisdom TC Flowable may be applied to critical areas of the structure including plumbing and utility entry sites, bath traps, expansion joints, foundation cracks and areas with known or suspected infestations at a rate of 0.06% as a spot treatment or complete barrier treatment. Applications may be made as described in the Postconstruction treatment section of this label.

**Specific Pest Control Applications**

**Underground Services** such as: wires, cables, utility lines, pipes, conduits, etc. Services may be within structures or located outside structures, in right-of-ways or to protect long range (miles) of installations of services.

Soil treatment may be made using 0.06% to 0.12% Wisdom TC Flowable emulsion to prevent attack by Termites and Ants.

Apply 2 gallons of emulsion per 10 linear feet to the bottom of the trench and allow to soak into the soil. Lay services on the treated soil and cover with approximately 2 inches of fill soil. Apply another 2 gallons per 10 linear feet over the soil surface to complete the treatment barrier. In wide trenches, only treat the soil in the area near the services. It is important to establish a continuous barrier of treated soil surrounding the services.

Where soil will not accept the above labeled volume, 1 gallon of 0.12% Wisdom TC Flowable may be used per 10 linear feet of trench both to the bottom of the trench and over the soil on top of the services.

Finish filling the trench with treated fill soil. The soil where each service protrudes from the ground may be treated by trenching/rodding of no more than 1 to 2 gallons of emulsion into the soil.

**Precautions:** Do not treat electrically active underground services.

**Posts, Poles, and Other Constructions**

Create an insecticidal barrier in the soil around wooden constructions such as signs, fences and landscape ornamentation by applying a 0.06% emulsion.
Previously installed poles and posts may be treated by sub-surface injection or treated by gravity-flow through holes made from the bottom of a trench around the pole or post. Treat on all sides to create a continuous insecticidal barrier around the pole. Use 1 gallon of emulsion per foot of depth for poles and posts less than 6 inches in diameter. For larger poles, use 1.5 gallons of emulsion per foot of depth. Apply to a depth of 6 inches below the bottom of the wood. For larger constructions, use 4 gallons per 10 linear feet per foot of depth.

**Treatment of Wood-in-Place for Control of Wood-Infesting Insects:** (Localized Areas in Structure) For the control of insects such as Termites, Ants, Carpenter Ants, and wood-infesting beetles such as Old House Borer and Powder Post in localized areas of infested wood in and around structures, apply a 0.06% emulsion to voids and galleries in damaged wood and in spaces between wooden members of a structure and between wood and foundations where wood is vulnerable. Paint on or fan spray applications may also be used. Plastic sheeting must be placed immediately below overhead areas that are spot treated except for soil surfaces in crawl spaces. Application may be made to inaccessible areas by drilling, and then injecting emulsion with a crack and crevice injector into the damaged wood or void spaces. This type of application is not intended to be a substitute for soil treatment, mechanical alteration or fumigation to control extensive infestation of wood-infesting insects.

Termite carton nests in trees or building voids may be injected with 0.06% emulsion. Multiple injection points to varying depths may be necessary. It is desirable to physically remove carton nest material from building voids when such nests are found.

**Control of Bees and Wasps Indoors:** To control Bees, Wasps, Hornets, and Yellow-Jackets apply a 0.06% emulsion. Application should be made in the late evening when insects are at rest. Spray liberally into hiding and breeding places, especially under attic rafters, contacting as many insects as possible. Retreatment may be necessary to achieve and or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity.

**Important:** Do not apply emulsion until location of heat pipes, ducts, water and sewer lines, and electrical conduits are known and identified. Caution must be taken to avoid puncturing and injection into these structural elements. Do not apply into electrical fixtures, switches, or sockets.

In the home, all food processing surfaces and utensils in the treatment area should be covered during treatment or thoroughly washed before re-use. Remove pets, birds, and cover aquariums before spraying. Do not permit humans or pets to contact treated surfaces until the spray has dried.

During any overhead applications to overhead interior areas of structures, cover surfaces below with plastic sheeting or similar materials.

Wear protective clothing, unvented goggles, gloves and respirator, when applying to overhead areas or in poorly ventilated areas. Avoid touching sprayed surfaces until spray has completely dried.

**Broadcast Treatment of Wood for the Control of Wood-Infesting Insects and Nuisance Pests Outside of Structure**

Apply a 0.06% emulsion with a fan spray using a maximum pressure of 25 p.s.i. Treatment should be made just to the point of run-off.

To control wood-infesting insects active inside trees, utility poles and/or fence posts, drill to find the interior infested cavity and inject a 0.06% emulsion. To control Bees, Wasps, Hornets, and Yellow-Jackets, apply in late evening when insects are at rest. Aim spray at nest openings in ground, bushes and in cracks and crevices which may harbor nests, saturating nest openings and contacting as many insects as possible.

**Pests Under Slabs**

Infestations of Arthropods, such as Ants, Cockroaches and Scorpions inhabiting under slab area may be controlled by drilling and injecting or horizontal rodding and then injecting 1 gallon of a 0.06% to 0.12% emulsion per 10 square feet or 2 gallons of emulsion per 10 linear feet.

**Formula for Determining the Active Ingredient Content of the Finished Spray Mixture:** The following formula may be used to determine the percent active ingredient that is in the spray tank after mixing Wisdom TC Flowable:

\[
\text{Percent Active Ingredient in spray mix} = \frac{(7.9)(\text{Fl. Oz. of Wisdom TC Flowable added to tank})}{(\text{Gallons of Finished spray mix})(128)}
\]

**APPLICATION INSTRUCTIONS**

Wisdom TC Flowable formulation mixes readily with water and other aqueous carriers, and controls listed insects and mites on trees, shrubs, foliage plants, non-bearing fruit and nut trees, and flowers in interiorscapes including hotels, shopping malls, office
buildings, etc., and outdoor plantscapes, such as around residential dwellings, parks, institutional buildings, recreational areas, athletic fields and home lawns. Non-bearing crops are perennial crops that will not produce a harvestable raw agricultural commodity during the season of application.

Wisdom TC Flowable may be tank-mixed with other pesticides, including insect growth regulators. When tank mixing Wisdom TC Flowable with other pesticides, observe all precautions and limitations on each separate product label. The physical compatibility of Wisdom TC Flowable may vary with different sources of pesticide products, and local cultural practices. Any tank mixture which has not been previously tested should be prepared on a small scale (pint or quart jar), using the proper proportions of pesticides and water to ensure the physical compatibility of the mixture.

The following procedure is recommended for preparation of a new tank mix, unless specified otherwise in label directions:
1. Add wettable powders to tank water,
2. Agitate,
3. Add liquids and flowables,
4. Agitate,
5. Add emulsifiable concentrates and,
6. Agitate.

If a mixture is found to be incompatible following this order of addition, try reversing the order of addition, or increase the volume of water. **Note:** If the tank-mixture is found to be compatible after increasing the amount of water, then the sprayer will need to be recalibrated for a higher volume application. Do not allow tank mix to stand overnight.

**Resistance:** Some insects are known to develop resistance to products used repeatedly for control. Because the development of resistance cannot be predicted, the use of this product should conform to resistance management strategies established for the use area. Consult your local or state pest management authorities for details.

If resistance to this product develops in your area, this product, or other products with a similar mode of action, may not provide adequate control. If poor performance cannot be attributed to improper application or extreme weather conditions, a resistant strain of insect may be present. If you experience difficulty with control and suspect that resistance is a reasonable cause, immediately consult your local company representative or pest management advisor for the best alternative method of control for your area.

**LAWN APPLICATION**

**Lawn:** Apply Wisdom TC Flowable as a broadcast treatment. Use application volumes of up to 10 gallons per 1,000 square feet to get uniform coverage when treating dense grass foliage.

For low volume applications, less than 2 gallons /1,000 square feet, immediate irrigation of treated area with at least 0.25 inch of water following application to ensure efficacy of sub-surface pests including Mole Crickets.

**LAWN APPLICATION RATES**
The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, Wisdom TC Flowable may be applied at up to 1 fl. oz. per 1,000 square feet to control each of the pests listed in this Table. The higher application rates should be used when maximum residual control is desired.

<table>
<thead>
<tr>
<th>Pest</th>
<th>Application Rate Wisdom TC Flowable</th>
</tr>
</thead>
<tbody>
<tr>
<td>Armyworms</td>
<td>0.18-0.25 fluid oz. per 1,000 sq. ft.</td>
</tr>
<tr>
<td>Cutworms</td>
<td></td>
</tr>
<tr>
<td>Sod Webworm</td>
<td></td>
</tr>
<tr>
<td>Annual Bluegrass Weevil (<em>Hyperodes</em>) (Adult)</td>
<td>0.25-0.50 fluid oz. per 1,000 sq. ft.</td>
</tr>
<tr>
<td>Banks Grass Mite</td>
<td></td>
</tr>
<tr>
<td>Billbugs (Adult)</td>
<td></td>
</tr>
<tr>
<td>Black Turfgrass Ataenius (Adult)</td>
<td></td>
</tr>
<tr>
<td>Centipedes</td>
<td></td>
</tr>
<tr>
<td>Chinch Bugs</td>
<td></td>
</tr>
<tr>
<td>Crickets</td>
<td></td>
</tr>
<tr>
<td>Earwigs</td>
<td></td>
</tr>
<tr>
<td>Fleas (adult)</td>
<td></td>
</tr>
<tr>
<td>Grasshoppers</td>
<td></td>
</tr>
<tr>
<td>Leafhoppers</td>
<td></td>
</tr>
</tbody>
</table>
Mealybugs
Millipedes
Mites
Pillbugs
Sowbugs

<table>
<thead>
<tr>
<th>Ants</th>
<th>0.50-1.00 fl. oz. per 1,000 sq. ft.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Crane Fly larvae</td>
<td></td>
</tr>
<tr>
<td>Fleas (Larvae)</td>
<td></td>
</tr>
<tr>
<td>Imported Fire Ants</td>
<td></td>
</tr>
<tr>
<td>Japanese Beetle (Adult)</td>
<td></td>
</tr>
<tr>
<td>Mole Cricket (Adult)</td>
<td></td>
</tr>
<tr>
<td>Mole Cricket (Nymph)</td>
<td></td>
</tr>
<tr>
<td>Ticks</td>
<td></td>
</tr>
</tbody>
</table>

In New York State, this product may NOT be applied to any grass or turf area within 100 feet of a water body (lake, pond, river, stream, wetland, or drainage ditch).

In New York State, do make a single repeat application of Wisdom TC Flowable if there are signs of renewed insect activity, but not sooner than two weeks after the first application.

Comments

1. Armyworms, Cutworms and Sod Webworms: To ensure optimum control, delay watering (irrigation) or mowing for 24 hours after application. If the grass area is being maintained at a mowing height of greater than 1 inch, then higher application rates (up to 1 fluid oz. per 1,000 square feet) may be required during periods of high pest pressure.

2. Annual Bluegrass Weevil (Hyperodes) adults: Applications should be timed to control adult weevils as they leave their overwintering sites and move into grass areas. This movement generally begins when Forsythia is in full bloom and concludes when flowering dogwood (Cornus florida) is in full bloom. Consult your State Cooperative Extension Service for more specific information regarding application timing.

3. Mites: To ensure optimal control of eriophyid mites, apply in combination with the labeled application rate of a surfactant. A second application, five to seven days after the first, may be necessary to achieve acceptable control.

4. Billbug adults: Applications should be made when adult billbugs are first observed during April and May. Degree day models have been developed to optimize application timing. Consult your State Cooperative Extension Service for information specific to your region. In temperate regions, spring applications targeting billbug adults will also provide control of over-wintered chinch bugs.

5. Black Turfgrass Ataenius adults: Applications should be made during May and July to control the first and second generation of black turfgrass ataenius adults, respectively. The May application should be timed to coincide with the full bloom stage of Vanhoutte spiraea (Spiraea vanhouttel) and horse chestnut (Aesculus hippocastanum). The July application should be timed to coincide with the blooming of Rose of Sharon (Hibiscus syriacus).

6. Chinch Bugs: Chinch bugs infest the base of grass plants and are often found in the thatch layer. Irrigation of the grass area before treatment will optimize the penetration of the insecticide to the area where the chinch bugs are located. Use higher volume applications if the thatch layer is excessive or if a relatively long mowing height is being maintained. Chinch bugs can be one of the most difficult pests to control in grasses and the higher application rates (up to 1 fluid oz. per 1,000 square feet) may be required to control populations that contain both nymphs and adults during the middle of the summer.

7. Crane Fly larvae: Applications should target early- to mid-stage larvae. Applications targeting late-stage larvae may only provide suppression. Two species of crane flies damage turfgrass. Tipula paludosa has one generation per year and adults emerge in late summer. Early- to mid-stage larvae of this species are present from late summer through mid-winter. Late-stage larvae, which are more difficult to control, are present from mid-winter through spring. T. oleracea has two generations per year. The timing of one of its generations coincides with that of T. paludosa. Adults of T. oleracea also emerge in the spring and produce a summer generation of larvae.
8Flea Larvae: Flea larvae develop in the soil of shaded areas that are accessible to pets or other animals. Use a higher volume application when treating these areas to ensure penetration of the insecticide into the soil. Note: If the lawn area is being treated with Wisdom TC Flowable at 0.25 fluid oz. per 1,000 square feet for adult flea control, then the larval application rate may be achieved by increasing the application volume two- to four-fold.

9Imported Fire Ants: Control will be optimized by combining broadcast applications that will control foraging workers and newly mated fly-in queens with mound drenches that will control existing colonies. If the soil is not moist, then it is important to irrigate before application or use a high volume application. Broadcast treatments should apply 1 fluid oz. per 1,000 square feet. Mounds should be treated by diluting 1 teaspoon of Wisdom TC Flowable per gallon of water and applying 1 to 2 gallons of finished spray per mound. The mounds should be treated with sufficient force to break their apex and allow the insecticide solution to flow into the ant tunnels. A four foot diameter circle around the mound should also be treated. For best results, apply in cool weather (65-80°F) or in early morning or late evening hours. Note: A spray rig that is calibrated to apply 1 fluid oz. per 1,000 square feet of Wisdom TC Flowable in 5 gallons per 1,000 square feet contains the approximate dilution (1 teaspoon per gallon) that is required for fire ant mound drenches in the spray tank.

10Mole Cricket adults: Achieving acceptable control of adult mole crickets is difficult because preferred grass areas are subject to continuous invasion during the early spring by this extremely active stage. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inch of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized. Grass areas that receive pressure from adult mole crickets should be treated at peak egg hatch to ensure optimum control of subsequent nymph populations (see below).

11Mole Cricket nymphs: Grass areas that received intense adult mole cricket pressure in the spring should be treated immediately prior to peak egg hatch. Optimal control is achieved at this time because young nymphs are more susceptible to insecticides and they are located near the soil surface where the insecticide is most concentrated. Control of larger, more damaging, nymphs later in the year may require both higher application rates and more frequent applications to maintain acceptable control. Applications should be made as late in the day as possible and should be watered in with up to 0.5 inch of water immediately after treatment. If the soil is not moist, then it is important to irrigate before application to bring the mole crickets closer to the soil surface where contact with the insecticide will be maximized.

12Ticks (Including ticks that may transmit Lyme Disease and Rocky Mountain Spotted Fever): Do not make spot applications. Treat the entire area where exposure to ticks may occur. Use higher spray volumes when treating areas with dense ground cover or heavy leaf litter. Ticks may be reintroduced from surrounding areas on host animals. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed activity. Repeat application must be limited to no more than once per seven days.

Deer Ticks (Ixodes sp.) have a complicated life cycle that ranges over a two year period and involves four life stages. Applications should be made in the late fall and/or early spring to control adult ticks that are usually located on brush or grass above the soil surface and in mid to late spring to control larvae and nymphs that reside in the soil and leaf litter.

American dog ticks may be a considerable nuisance in suburban settings, particularly where homes are built on land that was previously field or forest. These ticks commonly congregate along paths or roadways where humans are likely to be encountered. Applications should be made as necessary from mid-spring to early fall to control American dog tick larvae, nymphs and adults.

<table>
<thead>
<tr>
<th>Application Volume: Gallons per 1,000 sq. ft.</th>
<th>Application Rate: Fluid Ounces per 1,000 sq. ft.</th>
<th>Fluid Ounces* of Wisdom TC Flowable Diluted to these Volumes of Finished Spray</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.0</td>
<td>0.18</td>
<td>0.18 0.90 1.80 18.00</td>
</tr>
<tr>
<td>1.0</td>
<td>0.25</td>
<td>0.25 1.25 2.50 25.00</td>
</tr>
<tr>
<td>1.0</td>
<td>0.50</td>
<td>0.50 2.50 5.00 50.00</td>
</tr>
<tr>
<td>1.0</td>
<td>1.00</td>
<td>1.00 5.00 10.00 100.00</td>
</tr>
<tr>
<td>2.0</td>
<td>0.18</td>
<td>--- 0.45 0.90 9.00</td>
</tr>
<tr>
<td>2.0</td>
<td>0.25</td>
<td>--- 0.90 1.80 18.00</td>
</tr>
<tr>
<td>2.0</td>
<td>0.25</td>
<td>0.13 0.63 1.25 12.50</td>
</tr>
<tr>
<td>2.0</td>
<td>0.50</td>
<td>0.25 1.25 2.50 25.00</td>
</tr>
<tr>
<td>2.0</td>
<td>1.00</td>
<td>0.50 2.50 5.00 50.00</td>
</tr>
<tr>
<td>3.0</td>
<td>0.18</td>
<td>--- 0.30 0.60 6.00</td>
</tr>
</tbody>
</table>

Wisdom TC Flowable Lawn Dilution Chart
To convert to milliliters, multiply by 29.57.

1 fluid ounce = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure Wisdom TC Flowable.

**ORNAMENTALS AND TREES**

For ornamental applications (including, but not limited to, trees, shrubs, ground covers, bedding plants, and foliage plants) apply 0.125 to 1.0 fluid oz. of Wisdom TC Flowable per 1,000 square feet or 5.4 to 43.5 fl. oz. per 100 gallons. Wisdom TC Flowable may be diluted and applied in various volumes of water providing that the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fl. oz. per 100 gallons) is not exceeded. Wisdom TC Flowable may be applied through low volume application equipment by dilution with water or other carriers and providing that the maximum label rate (1.0 fluid oz. per 1,000 square feet or 43.5 fl. oz. per 100 gallons) is not exceeded.

Apply the specified application rate as a full coverage foliar spray. Repeat treatment as necessary to achieve control using higher application rates as pest pressure and foliage area increases. Repeat application should be limited to no more than once per seven days.

Certain cultivars may be sensitive to the final spray solution. A small number of plants should be treated and observed for one week prior to application to the entire planting.

Use of an alternate class of chemistry in a treatment program is recommended to prevent or delay pest resistance.

### Wisdom TC Flowable Ornamental Dilution Chart

<table>
<thead>
<tr>
<th>Application Volume: Gallons per Acre</th>
<th>Application Rate: Fluid Ounces per 1,000 sq. ft</th>
<th>Fluid Ounces* of Wisdom TC Flowable Diluted to these Volumes of Finished Spray</th>
</tr>
</thead>
<tbody>
<tr>
<td>1,000 sq. ft</td>
<td>100</td>
<td>1 gallon 5 gallons 10 gallons 100 gallons</td>
</tr>
<tr>
<td>2.3</td>
<td>0.125</td>
<td>--- 0.27 0.54 1.08 10.80</td>
</tr>
<tr>
<td>2.3</td>
<td>0.250</td>
<td>0.11 0.54 1.08 21.70</td>
</tr>
<tr>
<td>2.3</td>
<td>0.500</td>
<td>0.22 1.09 2.17 43.50</td>
</tr>
<tr>
<td>2.3</td>
<td>1.000</td>
<td>0.44 2.17 43.50 85.00</td>
</tr>
<tr>
<td>4.6</td>
<td>200</td>
<td>0.125 --- 0.27 0.54 10.80</td>
</tr>
<tr>
<td>4.6</td>
<td>200</td>
<td>0.250 --- 0.27 0.54 5.40</td>
</tr>
<tr>
<td>4.6</td>
<td>200</td>
<td>0.500 0.11 0.54 1.09 10.90</td>
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<tr>
<td>4.6</td>
<td>200</td>
<td>1.000 0.22 1.09 2.17 21.70</td>
</tr>
<tr>
<td>6.9</td>
<td>300</td>
<td>0.125 --- --- 0.18 1.80</td>
</tr>
<tr>
<td>6.9</td>
<td>300</td>
<td>0.250 --- --- 0.18 0.36 3.60</td>
</tr>
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<td>6.9</td>
<td>300</td>
<td>0.500 --- --- 0.36 0.72 7.20</td>
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<tr>
<td>6.9</td>
<td>300</td>
<td>1.000 0.15 0.72 1.45 14.50</td>
</tr>
</tbody>
</table>

*To convert to milliliters, multiply by 29.57.

300 gallons per acre is a typical application volume for landscape ornamental applications.
1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure Wisdom TC Flowable.

Calculating Dilution Rates Using the Ornamental Application Rates Table and the Wisdom TC Flowable Ornamental Dilution Chart: The following steps should be taken to determine the appropriate dilution of Wisdom TC Flowable that is required to control specific pests:

1. Identify the least susceptible target pest (the pest requiring the highest application rate for control).
2. Select an application rate in terms of fluid oz. of Wisdom TC Flowable.
3. Identify your application volume and how much spray mix you want to prepare.
4. Use the Ornamental Dilution Chart to determine the appropriate volume of Wisdom TC Flowable that must be mixed in your desired volume of water.

For example, suppose you are trying to control black vine weevil adults on rhododendron. The Ornamental Application Rates table shows that 0.25 to 0.5 fluid oz. of Wisdom TC Flowable should be applied per 1,000 square feet. You select an application rate of 0.5 fluid oz. per 1,000 square feet because maximum residual control is desired. Your application volume is approximately 300 gallons per acre, which is equivalent to 6.9 gallons per 1,000 square feet. Consulting the Ornamental Dilution Chart reveals that you should dilute 0.72 fluid oz. of Wisdom TC Flowable in 10 gallons of water.

ORNAMENTAL APPLICATION RATES
The application rates listed in the following table will provide excellent control of the respective pests under typical conditions. However, at the discretion of the applicator, Wisdom TC Flowable may be applied at up to 1 fluid oz. per 1,000 square feet (43.5 fl. oz. per 100 gallons) to control each of the pests listed in this Table. The higher application rates should be used when maximum residual control is desired.

<table>
<thead>
<tr>
<th>Pest</th>
<th>Application Rate Wisdom TC Flowable</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Fluid Ounces per 1,000 square feet</td>
</tr>
<tr>
<td>Bagworms</td>
<td>0.125-0.250</td>
</tr>
<tr>
<td>Cutworms</td>
<td></td>
</tr>
<tr>
<td>Elm Leaf Beetles</td>
<td></td>
</tr>
<tr>
<td>Fall Webworms</td>
<td></td>
</tr>
<tr>
<td>Gypsy Moth Caterpillars</td>
<td></td>
</tr>
<tr>
<td>Lace Bugs</td>
<td></td>
</tr>
<tr>
<td>Leaf Feeding Caterpillars</td>
<td></td>
</tr>
<tr>
<td>Tent Caterpillars</td>
<td></td>
</tr>
<tr>
<td>Adelgids†</td>
<td>0.25-0.50</td>
</tr>
<tr>
<td>Ants</td>
<td></td>
</tr>
<tr>
<td>Aphids</td>
<td></td>
</tr>
<tr>
<td>Bees</td>
<td></td>
</tr>
<tr>
<td>Beet Armyworm Beetles†</td>
<td></td>
</tr>
<tr>
<td>Black Vine Weevil (Adults)</td>
<td></td>
</tr>
<tr>
<td>Brown Soft Scales</td>
<td></td>
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<tr>
<td>Broad Mites</td>
<td></td>
</tr>
<tr>
<td>Budworms</td>
<td></td>
</tr>
<tr>
<td>California Red Scale (Crawlers)†</td>
<td></td>
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<tr>
<td>Centipedes</td>
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</tr>
<tr>
<td>Cicadas†</td>
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<tr>
<td>Citrus Thrips</td>
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<td>Clover Mites</td>
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</tr>
<tr>
<td>Crickets</td>
<td></td>
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<tr>
<td>Diaprepes (Adults)</td>
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</tr>
<tr>
<td>Earwigs</td>
<td></td>
</tr>
<tr>
<td>European Red Mite</td>
<td></td>
</tr>
<tr>
<td>Flea Beetles</td>
<td></td>
</tr>
<tr>
<td>Fungus Gnats (Adults)</td>
<td></td>
</tr>
<tr>
<td>Grasshoppers</td>
<td></td>
</tr>
</tbody>
</table>

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### Pest Control

**Japanese Beetle (adults)†**
- Leafhoppers
- Leafrollers
- Mealybugs
- Millipedes
- Mites
- Mosquitoes
- Orchid Weevil
- Pillbugs
- Pine Needle Scales (Crawlers)\(^{14}\)
- Plant Bugs (Including *Lygus spp.*)
- Psyllids†
- San Jose Scales (Crawlers)\(^{14}\)
- Scorpions
- Sowbugs
- Spider Mites\(^{15}\)
- Spiders

**Pe**
- **St Application Rate Wisdom TC Flowable**

<table>
<thead>
<tr>
<th>Pest</th>
<th>Fluid Ounces per 1,000 square feet</th>
<th>Fluid ounces per 100 gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spittlebugs†</td>
<td>0.25-0.50</td>
<td>10.80-21.70</td>
</tr>
<tr>
<td>Thrips</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tip Moths</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Treehoppers†</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Twig Borers(^{14})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Wasps</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weevils(^{14})</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Whiteflies</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Imported Fire Ants**</td>
<td>0.50-1.00</td>
<td>21.70-43.50</td>
</tr>
<tr>
<td>Leafminers</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pecan Leaf Scorch Mite</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pine Shoot Beetle (Adults)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Spider Mites(^{15})</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

1. **Bagworms:** Apply when larvae begin to hatch and spray larvae directly. Applications when larvae are young will be most effective.

2. **Beetles†, Scale Crawlers, Twig Borers, and Weevils:** Treat trunks, stems and twigs in addition to plant foliage.

3. **Spider Mites:** Wisdom TC Flowable provides optimal twospotted spider mite control when applied during spring to mid-summer. Higher application rates and/or more frequent treatments may be required for acceptable twospotted spider mite control during mid- to late summer. The addition of a surfactant or horticultural oil may increase the effectiveness of Wisdom TC Flowable. Combinations of Wisdom TC Flowable with other registered miticides have also proven effective. Alternately, Wisdom TC Flowable applications may be rotated with those of other products that have different modes of action in control programs that are designed to manage resistance by twospotted spider mites. Consult your local Cooperative Extension Service for resistance management recommendations in your region.

**For foraging ants.**

†Not for use in California.

**Pest Control on Outside Surfaces and Around Buildings**

For control of Ants, Carpenter Ants, Fire Ants, Armyworms, Bees, Beetles†, Biting Flies, Boxelder Bugs, Centipedes, Chiggers, Chinch Bugs, Clover Mites, Crickets, Cutworms, Dichondra Flea Beetles, Earwigs, Elm Leaf Beetles, Firebrats, Fleas, Flies, Gnats, Grasshoppers, Hornets, Japanese Beetles†, Midges, Millipedes, Mosquitoes, Moths, Roaches (including Cockroaches), Scorpions, Silverfish, Sod Webworms, Sowbugs (Pillbugs), Spider Mites, Spiders (including Black Widow Spiders), Springtails, Ticks (including Brown Dog Ticks), and Wasps.
†Not for use in California.

Apply Wisdom TC Flowable using a 0.02% to 0.06% suspension as a residual spray to outside surfaces of buildings including, but not limited to, exterior siding, foundations, porches, window frames, eaves, patios, garages, refuse dumps, lawns such as grass areas adjacent or around private homes, duplexes, townhouses, condominiums, house trailers, apartment complexes, carports, garages, fence lines, storage sheds, barns, and other residential and non-commercial structures, soil, trunks of woody ornamentals and other areas where pests congregate or have been seen. Use a spray volume of up to 10 gallons of emulsion per 1,000 square feet. Higher application volumes may be used to obtain the desired coverage of dense vegetation or landscaping materials.

**Mixing Directions:** For 0.02% suspension, mix 0.33 fluid oz. of Wisdom TC Flowable per gallon of water. For 0.06% suspension, mix 1 fluid oz. Wisdom TC Flowable per gallon of water (1 fluid oz. = 2 tablespoons). Do not use household utensils to measure Wisdom TC Flowable. Use the higher rate for heavy pest infestation, quicker knockdown or longer residual control. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application must be limited to no more than once per seven days.

Applications to vertical exterior surfaces (e.g., foundations) are permitted to a maximum height of 3 feet from ground level. Sections of vertical exterior surfaces that abut non-porous horizontal surfaces can only be treated if either 1) these sections are protected from rainfall and spray from sprinklers or 2) they do not drain into a sewer, storm drain, or curbside gutter (e.g., not to sections that abut driveways or sidewalks that drain into the streets).

**Perimeter Treatment:** Apply to a band of soil and vegetation 6 to 10 feet wide around and adjacent to the structure. Also, treat the foundation of the structure to a height of 2 to 3 feet. Apply 0.33 to 1.0 fluid oz. of Wisdom TC Flowable per 1,000 square feet in sufficient water to provide adequate coverage (refer to Perimeter Application Dilution Chart). For sections of foundation that abut non-porous horizontal surfaces, the treated areas must be protected from rainfall and spray from sprinklers or they must not drain into a sewer, storm drain, or curbside gutter (e.g., not to sections that abut driveways or sidewalks that drain into the streets).

### Wisdom TC Flowable Perimeter Application Dilution Chart

<table>
<thead>
<tr>
<th>Application Volume: Gallons per 1,000 sq. ft.</th>
<th>Application Rate: Fluid ounces per 1,000 sq. ft.</th>
<th>Fluid Ounces* of Wisdom TC Flowable Diluted to These Volumes of Finished Spray</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 gallon</td>
<td>0.33</td>
<td>0.33, 1.67, 3.33, 33.3</td>
</tr>
<tr>
<td>1 gallon</td>
<td>0.50</td>
<td>0.50, 2.50, 5.00, 50.0</td>
</tr>
<tr>
<td>1 gallon</td>
<td>0.67</td>
<td>0.67, 3.33, 6.67, 66.7</td>
</tr>
<tr>
<td>1 gallon</td>
<td>0.75</td>
<td>0.75, 3.75, 7.50, 75.0</td>
</tr>
<tr>
<td>1 gallon</td>
<td>1.00</td>
<td>1.00, 5.00, 10.00, 100.0</td>
</tr>
<tr>
<td>2 gallons</td>
<td>0.33</td>
<td>0.17, 0.83, 1.65, 16.5</td>
</tr>
<tr>
<td>2 gallons</td>
<td>0.50</td>
<td>0.25, 1.25, 2.50, 25.0</td>
</tr>
<tr>
<td>2 gallons</td>
<td>0.67</td>
<td>0.33, 1.67, 3.35, 33.5</td>
</tr>
<tr>
<td>2 gallons</td>
<td>0.75</td>
<td>0.38, 1.88, 3.75, 37.5</td>
</tr>
<tr>
<td>2 gallons</td>
<td>1.00</td>
<td>0.50, 2.50, 5.00, 50.0</td>
</tr>
<tr>
<td>3 gallons</td>
<td>0.33</td>
<td>0.11, 0.55, 1.10, 11.0</td>
</tr>
<tr>
<td>3 gallons</td>
<td>0.50</td>
<td>0.17, 0.83, 1.67, 16.7</td>
</tr>
<tr>
<td>3 gallons</td>
<td>0.67</td>
<td>0.22, 1.11, 2.23, 22.3</td>
</tr>
<tr>
<td>3 gallons</td>
<td>0.75</td>
<td>0.25, 1.25, 2.50, 25.0</td>
</tr>
<tr>
<td>3 gallons</td>
<td>1.00</td>
<td>---, 1.67, 3.33, 33.3</td>
</tr>
<tr>
<td>4 gallons</td>
<td>0.33</td>
<td>---, 0.41, 0.83, 8.3</td>
</tr>
<tr>
<td>4 gallons</td>
<td>0.50</td>
<td>0.13, 0.63, 1.25, 12.5</td>
</tr>
<tr>
<td>4 gallons</td>
<td>0.67</td>
<td>0.17, 0.84, 1.67, 16.7</td>
</tr>
<tr>
<td>4 gallons</td>
<td>0.75</td>
<td>0.19, 0.94, 1.88, 18.8</td>
</tr>
<tr>
<td>4 gallons</td>
<td>1.00</td>
<td>0.25, 1.25, 2.50, 25.0</td>
</tr>
<tr>
<td>5 gallons</td>
<td>0.33</td>
<td>---, 0.33, 0.67, 6.7</td>
</tr>
<tr>
<td>5 gallons</td>
<td>0.50</td>
<td>0.10, 0.50, 1.00, 10.0</td>
</tr>
</tbody>
</table>
**For Ant and Fire Ant Mounds use Wisdom TC Flowable 0.06% emulsion as Drench Method:** Apply 1 to 2 gallons of emulsion to each mound area by sprinkling the mound until it is wet and treat a 4 foot diameter circle around the mound. Use the higher volume for mounds larger than 12”. For best results, apply in cool weather, such as in early morning or late evening hours, but not in the heat of the day.

**Mosquito Control:** Dilute 0.33 to 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general spray around landscapes, lawn and buildings to control mosquitoes. For higher volume applications, Wisdom TC Flowable may be diluted at lower concentrations and applied at greater volumes to deliver the desired amount of product per area (refer to the Ornamental or Perimeter Application Dilution Chart).

**INDOOR USE**

In the home, all food processing surfaces and utensils should be covered during treatment or thoroughly washed before use. Exposed food should be covered or removed.

For control of ants, bees, beetles, boxelder bugs, carpet beetles, centipedes, cloth moths, cockroaches, crickets, earwigs, firebrats, flies, gnats, midges, millipedes, pillbugs, scorpions, silverfish, sowbugs, spiders, ticks and wasps.

Use a 0.02% to 0.06% suspension (0.33 to 1 fluid oz. per gallon of water) for residual pest control in buildings and structures and on modes of transport. Apply either as a crack and crevice, pinstream, spot, coarse, low pressure spray (25 p.s.i. or less) or with a paint brush.

**Indoor Treatments:** Apply as a coarse, low pressure, crack and crevice or spot spray to areas where pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, stoves, the underside of shelves, drawers and similar areas. Do not use as a space spray. Pay particular attention to cracks and crevices.

**Mixing Directions:** See mixing directions in “Pest Control on Outside Surfaces and Around Buildings” Section.

Wisdom TC Flowable is to be diluted with water for spray or brush application. Fill sprayer with the desired volume of water and add Wisdom TC Flowable. Close and shake before use in order to ensure proper mixing. Mix only the amount of solution needed for the application. Retreatment may be necessary to achieve and/or maintain control during periods of high pest pressure. Repeat application is necessary only if there are signs of renewed insect activity. Repeat application must be limited to no more than once per seven days.

**Cockroaches, Crickets, Firebrats, Scorpions, Silverfish, Spiders and Ticks:** Apply as a coarse, low pressure spray to areas where these pests hide, such as baseboards, corners, storage areas, closets, around water pipes, doors and windows, attics and eaves, behind and under refrigerators, cabinets, sinks, furnaces, and stoves, the underside of shelves, drawers and similar areas. Pay particular attention to cracks and crevices.

**Ants:** Apply to any trails, around doors and windows and other places where ants may be found.

**Bees and Wasps:** Application to nests should be made late in the evening when insects are at rest. Thoroughly spray nest and entrance and surrounding areas where insects alight.

**Boxelder Bugs, Centipedes, Earwigs, Beetles, Millipedes, Pillbugs, and Sowbugs:** Apply around doors and windows and other places where these pests may be found or where they may enter premises. Spray baseboards, storage areas and other locations.

**FOOD/FEED HANDLING ESTABLISHMENT APPLICATIONS**

<table>
<thead>
<tr>
<th>Fluid oz</th>
<th>0.67</th>
<th>0.75</th>
<th>1.00</th>
<th>0.33</th>
<th>0.50</th>
<th>0.67</th>
<th>0.75</th>
<th>1.00</th>
<th>3.3</th>
<th>5.0</th>
<th>6.7</th>
<th>7.5</th>
<th>10.0</th>
</tr>
</thead>
<tbody>
<tr>
<td>5</td>
<td>0.13</td>
<td>0.15</td>
<td>0.20</td>
<td>0.17</td>
<td>0.25</td>
<td>0.33</td>
<td>0.38</td>
<td>0.50</td>
<td>---</td>
<td>5.0</td>
<td>6.7</td>
<td>7.5</td>
<td>10.0</td>
</tr>
<tr>
<td>10</td>
<td>0.17</td>
<td>0.25</td>
<td>0.33</td>
<td>0.33</td>
<td>0.50</td>
<td>0.67</td>
<td>0.75</td>
<td>1.00</td>
<td>3.3</td>
<td>5.0</td>
<td>6.7</td>
<td>7.5</td>
<td>10.0</td>
</tr>
<tr>
<td>10</td>
<td>0.33</td>
<td>0.50</td>
<td>0.67</td>
<td>0.75</td>
<td>1.00</td>
<td>2.00</td>
<td>3.3</td>
<td>5.0</td>
<td>6.7</td>
<td>7.5</td>
<td>10.0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*To convert to milliliters, multiply by 29.57.

1 fluid oz. = 29.57 ml = 2 tablespoons = 6 teaspoons

Do not use household utensils to measure Wisdom TC Flowable.
Applications of this product are permitted in both food/feed and nonfood areas of food/feed handling establishments as a general surface, spot, or crack and crevice treatment.

Food/feed handling establishments are defined as places other than private residences in which exposed food/feed is held, processed, prepared or served. Included also are areas for receiving, storing, packing (canning, bottling, wrapping, boxing), preparing, edible waste storage and enclosed processing systems (mills, dairies, edible oils, syrups) of food. Serving areas where food is exposed and the facility is in operation are also considered food areas.

Permitted non-food areas of use include garbage rooms, lavatories, floor drains (to sewers), entries and vestibules, offices, locker rooms, machine rooms, garages, mop closets and storage (after canning or bottling). Permitted use sites include, but are not limited to: aircraft (do not use in aircraft cabins), apartment buildings, bakeries, bottling facilities, breweries, buses, cafeterias, candy plants, canneries, dairy product processing plants, food manufacturing plants, food processing plants, food service establishments, granaries, grain mills, hospitals, hotels, industrial buildings, laboratories, meat/poultry/egg processing plants, mobile/motor homes, nursing homes, offices, railcars, restaurants, schools, ships, trailers, trucks, vessels, warehouses, and wineries.

**Surface Application:** Do not use this application method in food/feed handling establishments when the facility is in operation or foods/feeds are exposed. Do not apply directly to food products. Cover or remove all food processing and/or handling equipment during application. After application in food processing plants, bakeries, cafeterias, and similar facilities, wash all equipment, benches, shelving and other surfaces which food will contact. Clean food handling or processing equipment and thoroughly rinse with clean, fresh water.

**Spot, Crack and Crevice Application:** Spot or crack and crevice applications may be made while the facility is in operation; however, food should be covered or removed from area being treated. Do not apply directly to food.

**Foam Applications**
Wisdom TC Flowable may be converted to foam and used to treat structural voids. Dilute 0.33 to 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and add the manufacturers recommended volume of foaming agent to produce a 0.02% to 0.06% foam concentration. Verify before treatment that the foaming agent is compatible with Wisdom TC Flowable.

**TERMITE CONTROL (ABOVE GROUND ONLY)**
The purpose of the applications described below are to kill termite workers or winged reproductives that may be present at the time of treatment. These applications are intended as supplements to, and not substitutes for, mechanical alteration, soil treatment or foundation treatment.

To control exposed workers and winged reproductive termites in localized areas, dilute 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and apply as a coarse fan spray at the rate of one gallon per 1,000 square feet to attics, crawl spaces, unfinished basements and other void areas. Treat swarming termites as well as the areas in which they congregate.

To control above-ground termites in localized areas of infested wood, dilute 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and apply as a liquid or foam to voids and galleries in damaged wood as well as to spaces between wooden structural members and between the sill plate and foundation where wood is vulnerable to attack. Applications may be made to inaccessible areas by drilling and then injecting the dilution or foam, with a suitable directional injector, into damaged wood or wall voids. All treatment holes drilled in construction elements in commonly occupied areas of structures should be securely plugged after treatment.

To control termite carton nests in building voids, dilute 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and apply as a liquid or foam using a pointed injection tool. Multiple injection points and varying depths of injection may be necessary to achieve control. When possible, the carton nest material should be removed from the building void after treatment.

**ANT CONTROL**

**Nuisance Ants Indoors:** For best results, locate and treat ant nests. Dilute 0.5 to 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general surface, crack and crevice or spot treatment to areas where ants have been observed or are expected to forage. These areas include, but are not limited to, baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks and stoves, around pipes, cracks and crevices and in corners. Particular attention should be given to treating entry points into the home or premises such as around doors and windows. When using Wisdom TC Flowable in combination with baits, apply Wisdom TC Flowable as instructed above, and use baits in other areas that have not been treated with Wisdom TC Flowable.

**Nuisance Ants Outdoors:** For best results, locate and treat ant nests. Apply Wisdom TC Flowable to ant trails around doors and windows and other places where ants have been observed or are expected to forage. Apply a perimeter treatment using either low or high volume applications described in the “Pest Control on Outside Surfaces and Around Buildings” section of this label. The
higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for ant control. The following procedures must be followed to help achieve maximum control of the pest:

1. Treat non-porous surfaces only in areas protected from rainfall and spray from sprinklers with low volume applications using 0.5 to 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
2. Treat porous surfaces and vegetation with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of Wisdom TC Flowable per 1,000 square feet (refer to the Ornamental and Perimeter Application Dilution Charts).
3. For maximum residual control, dilute 0.5 to 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet.

Carpenter Ants Indoors: Dilute 0.5 to 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and apply at the rate of one gallon of dilution per 1,000 square feet as a general surface, crack and crevice or spot treatment to areas where carpenter ants have been observed or are expected to forage. These areas include, but are not limited to, baseboards, in and behind cabinets, under and behind dishwashers, furnaces, refrigerators, sinks and stoves, around pipes, cracks and crevices and in corners. Particular attention should be given to treating entry points into the home or premises such as around doors and windows. Spray or foam into cracks and crevices or drill holes and spray, mist or foam into voids where carpenter ants or their nests are present. When using Wisdom TC Flowable in combination with baits, apply Wisdom TC Flowable as instructed above, and use baits in other areas that have not been treated with Wisdom TC Flowable.

Carpenter Ants Outdoors: Apply Wisdom TC Flowable to carpenter ant trails around doors and windows and other places where carpenter ants have been observed or are expected to forage. For best results, locate and treat carpenter ant nests. Apply a perimeter treatment using either low or high volume applications described in the “Pest Control on Outside Surfaces and Around Buildings” section of this label. The higher dilutions and/or application volumes, as well as more frequent applications, may be necessary when treating concrete surfaces for carpenter ant control. The following procedures must be followed to help achieve maximum control of the pest:

1. Treat non-porous surfaces only in areas protected from rainfall and spray from sprinklers with low volume applications using 0.5 to 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and applying this dilution at the rate of one gallon per 1,000 square feet.
2. Treat the trunks of trees that have carpenter ant trails, or upon which carpenter ants are foraging, using 0.5 to 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and applying this dilution to thoroughly wet the bark from the base of the tree to as high as possible on the trunk.
3. Treat porous surfaces and vegetation with high volume applications using dilutions that are calculated to deliver 0.5 to 1.0 fluid oz. of Wisdom TC Flowable per 1,000 square feet (refer to the Ornamental and Perimeter Application Dilution Charts).
4. For maximum residual control, dilute 0.5 to 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and apply at a rate of up to 10 gallons of dilution per 1,000 square feet.

To control carpenter ants inside trees, utility poles, fencing or deck materials and similar structural members, drill to locate the interior infested cavity and inject or foam a 0.06% dilution (1.0 fluid oz. of Wisdom TC Flowable per gallon of water) into the cavity using a sufficient volume and an appropriate treatment tool with a splashback guard.

To control carpenter ants that are tunneling in the soil, dilute 0.5 to 1.0 fluid ounces of Wisdom TC Flowable per gallon of water and apply as a drench or inject the dilution or foam at intervals of 8 to 12 inches. Establish a uniform vertical barrier at the edges of walls, driveways or other hard surfaces where ants are tunneling beneath the surfaces.

For wood piles and stored lumber apply a 0.06% emulsion. Use a hose-end sprayer or sprinkling can to deliver a coarse drenching spray. Treated wood can be burned or used for lumber one month after treatment. Do not use in structures.

To protect firewood from carpenter ants (and termites), dilute 1.0 fluid oz. of Wisdom TC Flowable per gallon of water and apply to the soil beneath where the firewood will be stacked at the rate of one gallon of dilution per 8 square feet. DO NOT treat firewood with this product.

ATTENTION
Do not apply a broadcast application to interior surfaces of homes.
Do not apply to pets, crops, or sources of electricity.
Firewood is not to be treated.
Use only in well ventilated areas.
During any application to overhead areas within the structure, cover surfaces below with plastic sheeting or similar material except for soil surfaces in crawl spaces.
Do not allow spray to contact food, foodstuffs, food contacting surfaces, food utensils or water supplies.

Thoroughly wash dishes and food handling utensils with soap and water if they become contaminated by application of this product. Do not treat areas where food is exposed.

During indoor surface applications do not allow dripping or run-off to occur.

Do not allow people or pets on treated surfaces until spray has dried.

Wisdom TC Flowable will not stain or damage any surface that water alone will not stain or damage.

Do not apply this product in patient rooms or in any rooms while occupied by the elderly or infirm.

Do not apply in classrooms when in use.

Do not apply when occupants are present in the immediate area in institutions such as libraries, sports facilities, etc.

Do not apply this pesticide in livestock buildings (barns).

Application equipment that delivers low volume treatments, such as the Micro-Injector® or Actisol™ applicators, may also be used to make crack and crevice, deep harborage, spot and general surface treatments of Wisdom TC Flowable.

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**STORAGE AND DISPOSAL**

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

**Pesticide Storage:** Keep out of reach of children and animals. Store in original containers only. Store in a cool, dry place and avoid excess heat. Carefully open containers. After partial use, replace lids and close tightly. Do not put concentrate or dilute material into food or drink containers.

**In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC:** 1-800-424-9300.

To confine spill: If liquid, dike surrounding area or absorb with sand, cat litter or commercial clay. If dry material, cover to prevent dispersal. Place damaged package in a holding container. Identify contents.

**Pesticide Disposal:** Pesticide wastes are toxic. Do not contaminate water, food or feed by storage or disposal. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. Dispose of excess or waste pesticide by use according to label directions, or contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

**Container Disposal:**

For plastic **Containers under 1 gallon:** Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then 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.

For **Containers over 5 Gallons:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then 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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**LIMITED WARRANTY AND DISCLAIMER**

The manufacturer warrants (a) that this product conforms to the chemical description on the label; (b) that this product is reasonably fit for the purposes set forth in the directions for use, subject to the inherent risks referred to herein, when it is used in accordance with such directions; and (c) that the directions, warnings, and other statements on this label are based upon responsible experts' evaluations of reasonable tests of effectiveness, of toxicity to laboratory animals and to plants and residues on food crops, and upon reports of field experience. Tests have not been made on all varieties of food crops and plants, or in all states or under all conditions.

**THERE ARE NO EXPRESS WARRANTIES OTHER THAN THOSE SET FORTH HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW THE MANUFACTURER NEITHER MAKES NOR INTENDS, NOR DOES IT AUTHORIZE ANY AGENT OR REPRESENTATIVE, TO MAKE ANY OTHER WARRANTIES, EXPRESS OR IMPLIED, AND IT EXPRESSLY EXCLUDES AND DISCLAIMS ALL IMPLIED WARRANTIES OF MERCHANTABILITY OF FITNESS FOR A PARTICULAR PURPOSE, OR ANY WARRANTY OF QUALITY OR PERFORMANCE. THIS WARRANTY DOES NOT EXTEND TO, AND THE BUYER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT IN ANY MANNER WHICH IS INCONSISTENT WITH THE LABEL DIRECTIONS, WARNINGS OR CAUTIONS.**

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TORT OR OTHERWISE, SHALL BE LIMITED, AT THE MANUFACTURER'S OPTION, TO REPLACEMENT OF, OR THE
REPAYMENT OF THE PURCHASE PRICE FOR, THE QUANTITY OF PRODUCT WITH RESPECT TO WHICH DAMAGES ARE
CLAIMED. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW MANUFACTURER OR SELLER SHALL NOT BE
LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OR HANDLING OF THIS
PRODUCT.

AMVAC offers this product, and Buyer accepts it, subject to the foregoing Limited Warranty which may be varied only by agreement in writing
signed by an authorized representative of AMVAC.

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I. Du Pont de Nemours.

AMVAC Chemical Corporation
4100 E. Washington Boulevard
Los Angeles, CA 90023 U.S.A.
1-888-462-6822
1. Identification

Product identifier: WISDOM® TC Flowable

Other means of identification:
- SDS number: 317
- Product registration number: 5481-520

Recommended use: Pyrethroid type insecticide/miticide.

Recommended restrictions:
- No other uses are advised.
- Keep out of the Reach of Children!

EPA Registration number: EPA: 5481-520

Manufacturer/Importer/Supplier/Distributor information:
- Manufacturer: AMVAC Chemical Corporation
- Address: Suite 1200
- 4695 MacArthur Court
- Newport Beach, CA 92660
- Telephone: 949-260-1200
- AMVAC Chemical Corp 949-260-6270(FAX)
- Website: www.amvac.com
- E-mail: CustServ@amvac.com
- Emergency phone number:
  - Medical: 888-681-4261
  - CHEMTREC®: 800-424-9300
  - CHEMTREC® (USA+Canada): 888-462-6822
  - CHEMTREC® (Outside USA): +1-703-527-3887

2. Hazard(s) identification

- Physical hazards: Not classified.
- Health hazards: Acute toxicity, oral - Category 4
- Environmental hazards: Hazardous to the aquatic environment, acute hazard - Category 1
- Hazardous to the aquatic environment, long-term hazard - Category 1
- OSHA defined hazards: Not classified.

Label elements:

Signal word: Warning

Hazard statement:
- Harmful if swallowed.
- Very toxic to aquatic life.
- Very toxic to aquatic life with long lasting effects.

Precautionary statement:
- Prevention: Wash thoroughly after handling.
- Do not eat, drink or smoke when using this product.
- Avoid release to the environment.
- Wear protective gloves.
Response

IF SWALLOWED: Call a POISON CENTER or doctor/physician if you feel unwell.
IF ON SKIN: Wash with plenty of soap and water.
IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing.
If skin irritation or rash occurs: Get medical advice/attention.
Wash contaminated clothing before reuse.
Collect spillage.

Storage
Store in a well-ventilated place. Keep container tightly closed.
Store locked up.

Disposal
Dispose of contents/container in accordance with local/regional/national/international regulations.

Hazard(s) not otherwise classified (HNOC)
None known.

Supplemental information
This is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced in section 15. The pesticide label also includes other important information, including directions for use.

3. Composition/information on ingredients

Mixtures

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bifenthrin</td>
<td>Cyclopropanecarboxylic acid, 3-[(1Z)-2-chloro-3,3,3-trifluoro-1-propenyl]-2,2-dimethyl-, (2-methyl[1,1'-biphenyl]-3-yl)methyl ester, (1R,3R)-rel-</td>
<td>82657-04-3</td>
<td>7.9</td>
</tr>
</tbody>
</table>

Additional components

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>Undisclosed Ingredients</td>
<td></td>
<td>N/A</td>
<td>92.1</td>
</tr>
</tbody>
</table>

4. First-aid measures

Inhalation
Remove victim to fresh air and keep at rest in a position comfortable for breathing. Get medical attention, if needed. Oxygen or artificial respiration if needed.

Skin contact
Remove and isolate contaminated clothing and shoes. Immediately flush skin with plenty of water. Use soap if available. Get medical attention if irritation develops and persists. In case of eczema or other skin disorders: Seek medical attention and take along these instructions.

Eye contact
Rinse with water. Get medical attention if irritation develops and persists.

Ingestion
Never give anything by mouth to a victim who is unconscious or is having convulsions. Do not induce vomiting without advice from poison control center. If vomiting occurs, keep head low so that stomach content doesn’t get into the lungs. Get medical advice/attention if you feel unwell. If ingestion of a large amount does occur, call a poison control center immediately.

May cause an allergic skin reaction. Dermatitis. Rash. Direct contact with eyes may cause temporary irritation.

Provide general supportive measures and treat symptomatically. Bifenthrin is moderately toxic if swallowed and has a low dermal toxicity. Gastric lavage using an endotracheal tube may be preferred to vomiting. Reversible skin sensations (paresthesia) may occur and ordinary skin salves have been found useful in reducing discomfort. Keep victim warm. Keep victim under observation. Symptoms may be delayed.

IF exposed or concerned: Get medical advice/attention. If you feel unwell, seek medical advice (show the label where possible). Ensure that medical personnel are aware of the material(s) involved, and take precautions to protect themselves. Show this safety data sheet to the doctor in attendance. Wash contaminated clothing before reuse.

5. Fire-fighting measures

Suitable extinguishing media
Water fog. Foam. Dry chemical powder. Carbon dioxide (CO2).

Unsuitable extinguishing media
Do not use water jet as an extinguisher, as this will spread the fire.

Specific hazards arising from the chemical
During fire, gases hazardous to health may be formed.
Special protective equipment and precautions for firefighters
Self-contained breathing apparatus and full protective clothing must be worn in case of fire.

Fire fighting equipment/instructions
Move containers from fire area if you can do so without risk.

Specific methods
Use standard firefighting procedures and consider the hazards of other involved materials.

General fire hazards
No unusual fire or explosion hazards noted.

6. Accidental release measures

Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Keep people away from and upwind of spill/leak. Wear appropriate protective equipment and clothing during clean-up. Do not breathe mist or vapor. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation. Local authorities should be advised if significant spillages cannot be contained.

Methods and materials for containment and cleaning up
This material is classified as a water pollutant under the Clean Water Act and should be prevented from contaminating soil or from entering sewage and drainage systems which lead to waterways. Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Siphon the majority of the liquid into drums for use or disposal, depending on the circumstances. Absorb in vermiculite, dry sand or earth and place into containers. Clean surface thoroughly to remove residual contamination.

Environmental precautions
Never return spills to original containers for re-use.

7. Handling and storage

Precautions for safe handling
Do not handle until all safety precautions have been read and understood. Do not breathe mist or vapor. Avoid contact with eyes, skin, and clothing. When using, do not eat, drink or smoke. Wear appropriate personal protective equipment. Wash hands thoroughly after handling. Avoid release to the environment.

Conditions for safe storage, including any incompatibilities
Store locked up. Store in original tightly closed container. Store in a well-ventilated place. Store away from incompatible materials (see Section 10 of the SDS).

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>Components</th>
<th>Type</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Precipitated silica (CAS 112926-00-8)</td>
<td>TWA</td>
<td>0.8 mg/m³</td>
</tr>
<tr>
<td>Precipitated silica (CAS 112926-00-8)</td>
<td>TWA</td>
<td>20 mppcf</td>
</tr>
<tr>
<td>Propylene glycol (CAS 57-55-6)</td>
<td>TWA</td>
<td>10 mg/m³</td>
</tr>
</tbody>
</table>

Biological limit values

Appropriate engineering controls
Good general ventilation (typically 10 air changes per hour) should be used. Ventilation rates should be matched to conditions. If applicable, use process enclosures, local exhaust ventilation, or other engineering controls to maintain airborne levels below recommended exposure limits. If exposure limits have not been established, maintain airborne levels to an acceptable level.

Individual protection measures, such as personal protective equipment

Eye/face protection
If contact is likely, safety glasses with side shields are recommended.

Skin protection

Hand protection
Wear appropriate chemical resistant gloves. Suitable gloves can be recommended by the glove supplier.

Other
Wear appropriate chemical resistant clothing (see label).
In case of insufficient ventilation, wear suitable respiratory equipment.

Respiratory protection

Thermal hazards

Not available.

General hygiene considerations

Keep away from food and drink. Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing and protective equipment to remove contaminants. Contaminated work clothing should not be allowed out of the workplace.

9. Physical and chemical properties

Appearance

Opaque, off-white liquid

Physical state

Liquid.

Form

Liquid.

Color

Opaque beige

Odor

Bland

Odor threshold

None established

pH

Not available.

Melting point/freezing point

28.4 °F (-2 °C)

Initial boiling point and boiling range

212 °F (100 °C)

Flash point

210 °F (99 °C) estimated

Evaporation rate

Not available

Flammability (solid, gas)

Not applicable.

Upper/lower flammability or explosive limits

Flammability limit - lower (%)

2.6 % estimated

Flammability limit - upper (%)

12.6 % estimated

Explosive limit - lower (%)

Not available.

Explosive limit - upper (%)

Not available.

Vapor pressure

1.81E-07 mm Hg @ 25°C (a.i.)

Vapor density

Heavier than air

Relative density

1.024 g/cm3 @ 20°C

Solubility(ies)

Solubility (water)

Dispersible

Solubility (solvents)

The active ingredient in this product is soluble in aromatic solvents

Auto-ignition temperature

700 °F (371 °C) estimated

Decomposition temperature

Not available.

Viscosity

Not available.

Other information

Bulk density

8.53 lb/gal

Flammability class

Combustible IIIB estimated

Percent volatile

Not applicable

pH in aqueous solution

6.7 @ 25°C

Specific gravity

1.024 @ 20°C

10. Stability and reactivity

Reactivity

The product is stable and non-reactive under normal conditions of use, storage and transport.

Chemical stability

Material is stable under normal conditions.

Possibility of hazardous reactions

Hazardous polymerization does not occur.

Conditions to avoid

Avoid temperatures exceeding the flash point. Contact with incompatible materials.

Incompatible materials

Strong oxidizing agents.
No hazardous decomposition products are known. This product may emit hazardous fumes of hydrogen chloride, carbon oxides, and unidentified organic compounds when it is heated excessively or burned. WEAR SELF-CONTAINED BREATHING APPARATUS when these conditions are present.

11. Toxicological information

Information on likely routes of exposure

Inhalation  Not available.
Skin contact  No adverse effects due to skin contact are expected.
Eye contact  Direct contact with eyes may cause temporary irritation.
Ingestion  May be harmful if swallowed.

Symptoms related to the physical, chemical and toxicological characteristics

May cause an allergic skin reaction. Contact with Bifenthrin may occasionally produce skin sensitization such as rashes, numbing, burning or tingling.

Information on toxicological effects

Acute toxicity  May be harmful if swallowed.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>WISDOM® TC Flowable</td>
<td></td>
<td></td>
</tr>
<tr>
<td>acute</td>
<td></td>
<td></td>
</tr>
<tr>
<td>dermal LD50</td>
<td>Rabbit</td>
<td>&gt; 5050 mg/kg</td>
</tr>
<tr>
<td>inhalation LC50</td>
<td>Rat</td>
<td>&gt; 2.65 mg/L, 4 hr</td>
</tr>
<tr>
<td>oral LD50</td>
<td>Rat</td>
<td>310 mg/kg</td>
</tr>
</tbody>
</table>

* Estimates for product may be based on additional component data not shown.

Skin corrosion/irritation  Non-irritating (rabbit).

Irritation Corrosion - Skin

WISDOM® TC Flowable  Result: Non irritating
Species: rabbit
Organ: skin

Serious eye damage/eye irritation

Irritation Corrosion - Eye

WISDOM® TC Flowable  Result: irritating
Species: rabbit
Organ: eye
Severity: Minimally

Respiratory or skin sensitization

Respiratory sensitization  Not a respiratory sensitizer.

Skin sensitization  Not a skin sensitizer.

Skin sensitization

WISDOM® TC Flowable  LLNA
Result: not a sensitizer
Species: Mouse
Organ: skin

Germ cell mutagenicity  No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity  None of the components present in this material at concentrations equal to or greater than 0.1% are listed by IARC, NTP, or OSHA, as a carcinogen. Bifenthrin has produced an increased incidence of urinary bladder tumors in male mice at the highest dose level tested. This response however was considered equivocal and not evidence of a clear compound related effect. The doses that produced this oncogenic effect in laboratory animals greatly exceeds human exposure levels for the recommended use of Bifenthrin products. Consequently, the oncogenic potential in humans is extremely weak or non-existent. Respirable crystalline silica is listed as being carcinogenic by both IARC and NTP. It is present at less than 0.01% in the product.
IARC Monographs. Overall Evaluation of Carcinogenicity
Precipitated silica (CAS 112926-00-8) 3 Not classifiable as to carcinogenicity to humans.
OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not listed.
US. National Toxicology Program (NTP) Report on Carcinogens
Not listed.

Reproductive toxicity
This product is not expected to cause reproductive or developmental effects.

Specific target organ toxicity - single exposure
Not classified.

Specific target organ toxicity - repeated exposure
No specific target organ toxicity is expected after repeated exposure.

Aspiration hazard
Not an aspiration hazard.

Chronic effects
Causes damage to organs through prolonged or repeated exposure. Prolonged inhalation may be harmful.

12. Ecological information

Ecotoxicity
Very toxic to aquatic life with long lasting effects.

<table>
<thead>
<tr>
<th>Components</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bifenthrin (CAS 82657-04-3)</td>
<td>Aquatic</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Acute</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Crustacea</td>
<td></td>
</tr>
<tr>
<td></td>
<td>LC50</td>
<td>Water flea (Ceriodaphnia dubia) 0 - 0.0002 mg/l, 48 hours</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Water flea (Daphnia magna) 0.0001 - 0.0009 mg/l, 48 hours</td>
</tr>
</tbody>
</table>

Persistence and degradability
No data is available on the degradability of this product.

Bioaccumulative potential
Partition coefficient n-octanol / water (log Kow)
WISDOM® TC Flowable < 6, Bifenthrin

Mobility in soil
No data available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions
Collect and reclaim or dispose in sealed containers at licensed waste disposal site. Do not allow this material to drain into sewers/water supplies. Do not contaminate ponds, waterways or ditches with chemical or used container. Dispose of contents/container in accordance with local/regional/national/international regulations.

Local disposal regulations
Dispose in accordance with all applicable regulations.

Hazardous waste code
The waste code should be assigned in discussion between the user, the producer and the waste disposal company.

Waste from residues / unused products
Dispose of in accordance with local regulations. Empty containers or liners may retain some product residues. This material and its container must be disposed of in a safe manner (see: Disposal methods/information).

Contaminated packaging
Since emptied containers may retain product residue, follow label warnings even after container is emptied. Empty containers should be taken to an approved waste handling site for recycling or disposal.

14. Transport information

DOT
UN number UN3082
UN proper shipping name Environmentally hazardous substances, liquid, n.o.s. (Bifenthrin)
Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
Packing group III
Environmental hazards
Marine pollutant No
Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.
Special provisions
8, 146, 335, IB3, T4, TP1, TP29
Packaging exceptions
155
Packaging non bulk
203
Packaging bulk
241

IATA
UN number
UN3082
UN proper shipping name
Environmentally hazardous substances, liquid, n.o.s. (Bifenthrin)
Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
Packing group
III
Environmental hazards
Yes, when transported over large bodies of water
Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.
Other information
Passenger and cargo aircraft
Allowed.
Cargo aircraft only
Allowed.
Read safety instructions, SDS and emergency procedures before handling.

IMDG
UN number
UN3082
UN proper shipping name
Environmentally hazardous substances, liquid, n.o.s. (Bifenthrin), MARINE POLLUTANT
Transport hazard class(es)
Class 9
Subsidiary risk -
Label(s) 9
Packing group
III
Environmental hazards
Marine pollutant
Yes
EmS
Not available.
Special precautions for user
Read safety instructions, SDS and emergency procedures before handling.
Transport in bulk according to
Annex II of MARPOL 73/78 and the IBC Code
DOT; IATA; IMDG

Marine pollutant
IMDG Regulated Marine Pollutant.
This product is not regulated when shipped by highway, rail, or air in non-bulk packaging (maximum capacity of 450 L (119 gallons) or less. When shipped by vessel or in bulk packaging this product is regulated according to the data shown.

15. Regulatory information

US federal regulations
This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.
This product is registered under EPA/FIFRA Regulations as a RESTRICTED USE PESTICIDE. It is a violation of Federal Law to use this product in any manner inconsistent with its labeling. Read and follow all label directions. This product is excluded from listing requirements under EPA/TSCA.

This chemical is a pesticide product registered by the United States Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets (SDS), and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information, including directions for use.

HAZARD TO HUMANS AND DOMESTIC ANIMALS.

CAUTION! Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with eyes, skin, and clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS
This pesticide is highly toxic to fish, aquatic invertebrates, birds and mammals. Use with care when applying in areas adjacent to any body of water. Drift and runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. 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, and streams. Do not contaminate water when disposing of equipment washwater or rinsate. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

PHYSICAL OR CHEMICAL HAZARDS
Do not apply water-based dilutions of this product to electrical conduits, motor housings, junction boxes, switch boxes or other electrical equipment because of the possible shock hazard.

Toxic Substances Control Act (TSCA)
TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1053)
Not listed.

Superfund Amendments and Reauthorization Act of 1986 (SARA)
SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

Classified hazard categories
Acute toxicity (any route of exposure)

SARA 313 (TRI reporting)

<table>
<thead>
<tr>
<th>Chemical name</th>
<th>CAS number</th>
<th>% by wt.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bifenthrin</td>
<td>82657-04-3</td>
<td>7.9</td>
</tr>
</tbody>
</table>

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.
Safe Drinking Water Act (SDWA)  Not regulated.

US state regulations
California Proposition 65
California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins. For more information go to www.P65Warnings.ca.gov.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>No</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>No</td>
</tr>
</tbody>
</table>

*A “Yes” indicates that all components of this product comply with the inventory requirements administered by the governing country(s)  A “No” indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date  Sep-30-2019
Revision date  Jun-07-2021

References
ACGIH®: American Conference of Governmental Industrial Hygienists
CERCLA: Comprehensive Environmental Response, Compensation, and Liability Act
EPA: Environmental Protection Agency
FIFRA: Federal Insecticide, Fungicide, and Rodenticide Act
IARC: International Agency for Research on Cancer
NTP: National Toxicology Program
OSHA: Occupational Safety and Health Agency
SARA: Superfund Amendments and Reauthorization Act
TSCA: Toxic Substances Control Act
DOT: Department of Transportation
IMDG: International Maritime Dangerous Goods
IATA: International Air Transport Association

Version #  2.0

HMIS® ratings
Health: 2
Flammability: 0
Physical hazard: 0

NFPA ratings
Health: 2
Flammability: 0
Instability: 0

Disclaimer
AMVAC Chemical Corporation cannot anticipate all conditions under which this information and its product, or the products of other manufacturers in combination with its product, may be used. It is the user’s responsibility to ensure safe conditions for handling, storage and disposal of the product, and to assume liability for loss, injury, damage or expense due to improper use. This information is provided for the limited guidance to the user. While AMVAC believes that the information is, as of the date hereof, reliable, it is the user’s responsibility to determine the suitability of the information for its purposes. The user is advised not to construe the information as absolutely complete since additional information may be necessary or desirable when particular, exceptional, or variable conditions or circumstances exist (like combinations with other materials), or because of applicable regulations. No express or implied warranty of merchantability or fitness for a particular purpose or otherwise is made hereunder with respect to the information or the product to which the information relates.

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Stability and reactivity: Hazardous decomposition products
Toxicological Information: Toxicological Property Data
Toxicological information: Corrosivity
Toxicological information: Skin contact
Regulatory information: Toxic Substances Control Act (TSCA)
Other information, including date of preparation or last revision: Disclaimer
GHS: Classification