For the control of mealybug, woolly aphid and codling moth in apples and pears, green peach aphid and oriental fruit moth in peaches and nectarines, mealybug in grapes, Queensland and Mediterranean Fruit Fly in table grapes, persimmon, pome fruit and stone fruit.

GENERAL INSTRUCTIONS

INSECTICIDE RESISTANCE WARNING

For insecticide resistance management Sumitomo SAMURAI Systemic Insecticide is a Group 4A insecticide. Some naturally occurring insect biotypes resistant to SAMURAI and other Group 4A insecticides may exist through normal genetic variability in any insect population. The resistant individuals can eventually dominate the insect population if SAMURAI or other Group 4A insecticides are used repeatedly. The effectiveness of SAMURAI on resistant individuals could be significantly reduced. Since the occurrence of resistant individuals is difficult to detect prior to use, Sumitomo Chemical Australia Pty Ltd accepts no liability for any losses that may result from the failure of this product to control resistant insects. SAMURAI may be subject to specific resistance management strategies. For further information contact your local supplier, Sumitomo Chemical Australia Pty Ltd representative or local agricultural department agronomist.

CROP MONITORING

Effective pest control depends upon regular monitoring of crops during the season at 3-5 day intervals.

MIXING

Measure the required amount of product to a partially filled spray tank and then add the remainder of the water. Ensure agitation is maintained during tank filling and whilst spraying. DO NOT let prepared spray solution sit in spray tank overnight.

COMPATIBILITY

It is advised to test water quality which may vary considerably with location, as well as all mixtures prior to mixing commercial quantities.

APPLICATION

This product may be applied by ground equipment only. Ensure equipment is calibrated to give good coverage at correct volume.

DO NOT apply more than 3 foliar sprays per season.

DO NOT apply more than 1 foliar spray per season if water volumes are greater than 2000 L/ha (see PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT).

Dilute Spraying:

- Use a sprayer designed to apply high volumes of water up to the point of run-off and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy. Apply sufficient water to cover the crop to the point of run-off. Avoid excessive run-off.
- The required water volume may be determined by applying different test volumes, using different settings on the sprayer, from industry guidelines or expert advice.
- Add the amount of product specified in the Directions for Use table for each 100 L of water. Spray to the point of run-off.
- The required dilute spray volume will change and the sprayer set up and operation may also need to be changed, as the crop grows.

Concentrate Spraying:

- DO NOT use less than 1000 L per hectare of water once trees reach medium size (2.5 m high).
- Use a sprayer designed and set up for concentrate spraying (that is a sprayer which applies water volumes less than those required to reach the point of run-off) and matched to the crop being sprayed.
- Set up and operate the sprayer to achieve even coverage throughout the crop canopy using your chosen water volume.
- Determine an appropriate dilute spray volume (see Dilute Spraying above) for the crop canopy. This is needed to calculate the concentrate mixing rate.
- The mixing rate for concentrate spraying can then be calculated in the following way:

**EXAMPLE ONLY:**

1. Dilute spray volume as determined above: for example 2000 L/ha
2. Your chosen concentrate spray volume: for example 1000 L/ha
3. The concentration factor in this example is: 2X (that is, 2000 L ÷ 1000 L = 2)
4. If the dilute label rate is 40 g/100 L, then the concentrate rate becomes 2 X 40, that is, 80 g/100 L of concentrate spray.

- The chosen spray volume, amount of product per 100 L of water, and the sprayer set up and operation may need to be changed as the crop grows.
• For further information on concentrate spraying, users are advised to consult relevant industry guidelines, undertake appropriate competency training and follow industry Best Practices.

Wetting Agent
Add MAXX Organosilicone Surfactant at the rate of 50 mL/100L (0.05%) of spray. DO NOT exceed this rate (see Restraints). Other surfactants may be acceptable but their effectiveness, safety to trees and fruit, or compatibility with SAMURAI cannot be guaranteed.

PROTECTION OF CROPS, NATIVE AND OTHER NON-TARGET PLANTS
DO NOT apply when there are relevant non-target terrestrial plants downwind from the application area within the mandatory no-spray zone.

PROTECTION OF LIVESTOCK
DO NOT apply by spray, micro-irrigation or soil drench if bees are foraging in the orchard or vineyard. Dangerous to bees and will kill bees foraging in the crop to be treated or in hives which are over-sprayed or reached by spray drift, and residues may remain toxic to bees several days after application. Risks to non-target insects – Clothianidin may have adverse effects on some non-target beneficials, in particular where IPM is practiced, to foliage dwelling predators.

PROTECTION OF WILDLIFE, FISH, CRUSTACEANS AND ENVIRONMENT
DO NOT apply under weather condition, or from spraying equipment, that may cause spray drift onto nearby or adjacent areas, particularly wetlands, waterbodies or watercourses. This product is highly toxic to aquatic invertebrates.
DO NOT contaminate streams, rivers or waterways with the chemical or used containers.
DO NOT apply when there are aquatic and wetland areas including aquacultural ponds or surface streams and rivers downwind from the application area and within the mandatory no-spray zone.
DO NOT apply if heavy rains are expected within 48 hours.

STORAGE AND DISPOSAL
Store in the closed, original container in a dry, cool, well-ventilated area, away from direct sunlight. Rinse containers before disposal. Add rinsings to spray tank. DO NOT dispose of undiluted chemicals on site. If recycling, replace cap and return clean containers to recycler or designated collection point. If not recycling, break, crush or puncture and deliver empty packaging to an approved waste management facility. If an approved waste management facility is not available bury the empty packaging 500 mm below the surface in a disposal pit specifically marked and set up for this purpose clear of waterways, desirable vegetation and tree roots, in compliance with relevant Local, State or Territory government regulations. DO NOT burn empty containers or product.

SAFETY DIRECTIONS
Poisonous if swallowed. Wash hands after use.

FIRST AID
If poisoning occurs contact a doctor or Poisons Information Centre. Phone Australia Tel. 131126; New Zealand 0800 764 766.

SDS
Additional information is listed in the Safety Data Sheet (SDS).

IMPORTANT NOTICE
These goods are to be used only for the purpose and as specified on the label, and are not suitable for any other purpose. To the fullest extent permitted by law, we do not accept or bear any liability on any basis for any loss, damage, cost or expense, arising in any way, directly or indirectly, in connection with the goods.

MAXX Organosilicone Surfactant™ is a tradename of Sumitomo Chemical Australia Pty Ltd

APVMA Approval No.: 60687/103567

May cause cancer.
Causes damage to organs through prolonged or repeated exposure.
Do not breathe dust.
DIRECTIONS FOR USE
DO NOT apply if bees are foraging in the orchard or vineyard.
MAXX surfactant may cause russetting on pears and apples.
DO NOT use MAXX surfactant on pears and apples in conditions such as high humidity where russetting may be caused.
DO NOT use MAXX surfactant at more than 50 mL/100 L water.
DO NOT use MAXX surfactant within 7 days of applying copper based or nutritional products to fruit.
DO NOT apply more than 5 sprays per season.
DO NOT use water volumes of more than 2,000 L/ha when more than 1 application is needed.
DO NOT apply more than 1 foliar spray per season if water volumes are greater than 2000 L/ha.
DO NOT apply more than one soil application per grape block per season.
DO NOT apply soil and foliar applications on the same grape block in the same season.

SPRAY DRIFT RESTRAINTS
MANDATORY NO-SPRAY ZONES
To protect aquatic organisms, the following No-Spray Zones apply:

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Downwind No-Spray Zone – m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orchard</td>
<td>250</td>
</tr>
<tr>
<td>Vineyard</td>
<td>40</td>
</tr>
</tbody>
</table>

To protect non-target terrestrial plants, the following No-Spray Zones apply:

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Downwind No-Spray Zone – m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Orchard</td>
<td>10</td>
</tr>
<tr>
<td>Vineyard</td>
<td>No requirement</td>
</tr>
<tr>
<td>CROP</td>
<td>PEST</td>
</tr>
<tr>
<td>----------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Apples (continued)</td>
<td>Woolly apple aphid</td>
</tr>
<tr>
<td>Apples and Pears</td>
<td>Longtailed mealybug</td>
</tr>
<tr>
<td></td>
<td>Tuber mealybug</td>
</tr>
<tr>
<td>Codling moth</td>
<td>Dilute foliar spray 40 g/ 100 L</td>
</tr>
<tr>
<td></td>
<td>Concentrate spraying</td>
</tr>
<tr>
<td>Pome fruit, Persimmon Stone Fruit</td>
<td>Queensland Fruit Fly, Mediterranean Fruit Fly</td>
</tr>
<tr>
<td>Table Grapes</td>
<td>Oriental fruit moth</td>
</tr>
<tr>
<td></td>
<td>Concentrate spraying</td>
</tr>
<tr>
<td>Green peach aphid</td>
<td>Dilute foliar spray 10 g/ 100 L</td>
</tr>
<tr>
<td>CROP</td>
<td>PEST</td>
</tr>
<tr>
<td>-----------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Table and wine grapes</td>
<td>Long tailed mealybug</td>
</tr>
<tr>
<td>Table grapes only</td>
<td>DILUTE FOLIAR SPRAY 40 g/ 100 L</td>
</tr>
</tbody>
</table>

NOT TO BE USED FOR ANY PURPOSE OR IN ANY MANNER CONTRARY TO THIS LABEL UNLESS AUTHORISED UNDER APPROPRIATE LEGISLATION.

WITHHOLDING PERIODS:
POME FRUIT, STONE FRUIT (INCLUDING CHERRIES), PERSIMMON:
DO NOT HARVEST FOR 7 DAYS AFTER THE LAST APPLICATION.

GRAPES (FOLIAR APPLICATION):
DO NOT HARVEST FOR 7 DAYS AFTER APPLICATION

GRAPES (SOIL APPLICATION):
NOT REQUIRED WHEN USED AS DIRECTED.
DO NOT GRAZE TREATED AREA OR CUT TREATED AREA FOR STOCK FEED.

Treated fruit for export to particular destinations outside Australia may require a longer interval before harvest to comply with residues standards of importing countries. Please contact your industry body, exporter or Sumitomo Chemical Australia before using Sumitomo SAMURAI Systemic Insecticide.