



Organosilicone Super Spreader with improved deposition

to enhance the spreading and foliage deposition of
fungicides, insecticides, plant growth regulators and nutrients and to enhance coverage of
Surround® Crop Protectant for improved sunburn control in apples

Contains a proprietary organosilicone / organic fluid blend

INGREDIENTS:

Proprietary Blend of Silicone Polyether Copolymer and Nonionic Surfactants....100%
TOTAL.....100%

All ingredients are exempt from the requirements of a tolerance as specified in 40 CFR 180.910

Net Contents: XX Gallons/ Liters

Manufactured For
Applied Spray Technologies
PO Box 200118
Evans, CO 80620

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

WARNING-/AVISO: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Avoid breathing vapor or mist. Wear appropriate eyewear such as goggles, face shield, or safety glasses. Harmful if swallowed. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. (Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. If you do not understand the label, find someone to explain it to you in detail.)

KEEP OUT OF REACH OF CHILDREN

FIRST AID

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.

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 inhaled:

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

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 to an unconscious person.

If an adverse reaction occurs after exposure: Promptly start the recommended procedures above.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, protective eyewear and shoes plus socks.

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

USER SAFETY RECOMMENDATIONS

User should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

SHAKE WELL BEFORE USING

PRODUCT INFORMATION

Hi-Wett adjuvant is a non-ionic organosilicone surfactant formulation for the application of fungicides, insecticides and plant growth regulators in horticultural and arable crops. **Hi-Wett adjuvant** lowers the surface tension of spray solutions well below commonly used surfactants, but, unlike most other silicone super-wetters, when used at recommended rates, **Hi-Wett adjuvant** will not promote high levels of stomatal infiltration which can cause plant damage through uptake of solvents and/or excessive spray water. Lower surface tension will result in more effective wetting and more uniform coverage on nearly any surface. **Hi-Wett adjuvant** will also enhance the amount of product retained on the leaf surface at spraying.

Hi-Wett adjuvant, when used according to directions, will reduce off-target spray drift by up to 25%.

Hi-Wett adjuvant readily disperses in spray solutions (aqueous and most non- aqueous). **Hi-Wett adjuvant** is especially suited to situations where coverage is critical and is particularly suited to low volume spraying and aerial applications where water coverage is a limiting factor.

Hi-Wett adjuvant is not resistant to rainfall. If rain or overhead irrigation is likely to occur within 5 days of treatment, substitute **Hi-Wett Xtra adjuvant** with latex based super-spreader that will improve rain resistance and reduce wash-off.

IMPORTANT

Before spraying any previously untried mixtures with **Hi-Wett adjuvant**, always test the mixture before hand for crop phytotoxicity.

DIRECTIONS FOR USE

Hi-Wett adjuvant will give best results in low volume spraying – around 25% or less of the normal volume of water when sprayed to run-off. High volumes with **Hi-Wett adjuvant** will result in excessive run-off of spray liquid and poor results. Adjust either the rates of **Hi-Wett adjuvant** or the water volumes, to obtain thorough coverage without excessive run-off. The chart below will serve as a guide.

Mixing: 1. Fill spray tank half full with water and begin agitation.

2. If foaming is expected add a **silicone based antifoam** to the tank before adding the pesticides.

3. Add pesticides /foliar nutrients as directed on their respective labels. Maintain agitation.

4. **SHAKE Hi-Wett adjuvant CONTAINER THOROUGHLY** and add the required amount **AFTER** all the pesticides are thoroughly mixed in the tank.

Recommendations:

Adjuvants contained in the pesticide formulations can be antagonistic to **Hi-Wett adjuvant**. As more products are added to the spray tank, antagonism increases. Higher rates of **Hi-Wett adjuvant** must be used to overcome this antagonism. The charts set out in the following table will serve as a guide to tank mix rates of **Hi-Wett adjuvant**.

Ground and Air Application Rates:

| CROP | SPRAYER TYPE | WATER GALS/A ¹ | Total pounds or pints of chemicals being applied per acre | | | | | | | | |
|--|--|---------------------------|---|-----|-----|-----|-----|-----|-----|-----|-----|
| | | | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| Vegetables Such as Bulb, Brassica, Leafy, and Strawberries (<i>Hard to wet leaves</i>) | Ground Boom Sprayer or Aerial Application | 15-20 | Rate of Hi-Wett Adjuvant in fluid ounces per acre | | | | | | | | |
| Potatoes and other Fruiting Vegetables, Cotton (<i>Easy to wet Leaves</i>) | | 5-10 | 3.2 | 3.2 | 4.0 | 4.8 | 6.0 | 7.2 | 8.0 | 8.8 | 9.6 |
| Grapes Foliage Bunches | Ground Air Assist | 10-25 20-25 | 2.4 | 2.4 | 3.2 | 3.2 | 4.0 | 4.0 | 4.8 | 4.8 | 5.6 |
| | | | 6.4 | 6.4 | 6.4 | 7.2 | 8.0 | 8.0 | 8.8 | 8.8 | 9.6 |

¹ Use the lower water volumes when crop canopy is small or light. Use the higher water volumes on larger, dense canopies

SUNBURN CONTROL WITH SURROUND® CROP PROTECTANT

(for use on all crops where Surround crop protectant is registered) Apply Hi-Wett adjuvant at a rate of 14 fluid ounces to every 25 pounds of Surround Crop Protectant. Follow the Surround label for full directions on timing and rates of Surround. It may be better to split the 50 lb application of Surround into two applications each of 25 lbs/acre to ensure no nozzle blockages in the lowest water volumes

Water volumes should be only 20% of full dilute if using conventional airblast equipment: e.g., if trees would be sprayed in 200 gallons water/acre, apply Hi-Wett adjuvant /Surround in only 40 gallons per acre. Water rates higher than 20% of dilute will cause excessive run-off resulting in a possible reduction in sunburn control. Sprayers will need re-calibration to get to these low rates.

If using Quantum Mist sprayers, lower water volumes down to around 15% of dilute can be used:- e.g. if trees would be sprayed with 200 gallons/acre dilute then Quantum Mist sprayers will apply 25 - 30gallons /acre effectively.

NOTE: As all equipment is set up differently, check the coverage on a small area and adjust volume to achieve the best result for your equipment before applying to large areas.

NOTES

1. Recommendations for other uses in other crops (avocados, citrus, apples, stonefruit, etc.) are under development.
2. Optimum spreading and wetting from Hi-Wett adjuvant will occur between pH 5 and pH 9. Spray mixtures above and below these figures should be sprayed immediately or adjust the solution to within the correct range to avoid breakdown of the Hi-Wett adjuvant.

3. Not all formulations of chemicals behave the same with **Hi-Wett adjuvant**. **Hi-Wett adjuvant** spray charts for the latest information on individual product spread antagonism before using new tank mixtures.
4. **Hi-Wett adjuvant** has demonstrated good plant safety. However not all plants and spray mixtures have been tested. Treatments that have a potential for phytotoxicity could be aggravated by **Hi-Wett adjuvant**. Before treating large areas, a small area should be tested and the results observed.

Compatibility

Hi-Wett adjuvant is compatible with most commonly used fungicides, insecticides and plant growth regulators. It should not be used with herbicides since stomatal uptake will be limited and poor results may occur. Do not mix **Hi-Wett adjuvant** with spray oils as phytotoxicity may occur. **Hi-Wett adjuvant** will break down when mixed with highly acidic (below pH 4) or highly alkaline (above pH 9) chemicals and poor wetting may result.

STORAGE & DISPOSAL

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

STORAGE: Keep in original container. Do not reuse empty containers. Store in cool, dry place.

Protect from excessive heat. Do not store below 4°C as product will freeze.

PRODUCT DISPOSAL: Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill.

Surround is a registered trademark of Engelhard Corporation, USA.

Hi-Wett is a registered Trade Mark of Elliott Chemicals Limited, Auckland, N.Z.