ADJUVANT

Hi-Wett®

SILICONE SURFACTANT • SPREADER

Organosilicone surfactant blend with improved deposition to enhance the spreading and foliage deposition of fungicides, insecticides, plant growth regulators and nutrients

Contains a proprietary organosilicone / non-ionic surfactant blend

PRINCIPAL FUNCTIONING AGENTS:

Polysiloxane polyether copolymer, alcohol ethoxylate, polyoxyethylene-polyoxypropylene copolymer.....100.0%

CA Reg. No. 34704-50093; WA Reg. No. 34704-15002

KEEP OUT OF REACH OF CHILDREN

WARNING

Precautionary Statements: Harmful if inhaled. Causes serious eye irritation. Avoid breathing dust/fume/gas/mist/vapours/spray. Use only outdoors or in a well-ventilated area. Wash hands thoroughly after handling.

Environmental Precautions: Prevent further leakage or spillage if safe to do so. Do not contaminate water. Do not allow to enter drains, sewers, or watercourses.

SHAKE WELL BEFORE USING

NET CONTENTS: 1 GAL. (3.78 L)

LOVELAND PRODUCTS, INC.® P.O. BOX 1286 GREELEY, CO 80632-1286

HI-WETT 1GL [G0814]

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PERSONAL PROTECTIVE EQUIPMENT: Wear protective gloves/eye protection/face protection.

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

FOR A MEDICAL EMERGENCY INVOLVING THIS PRODUCT, CALL 1-800-944-8565.
Have the product container or label with you when calling a poison control center or doctor or going for treatment.

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

PRODUCT INFORMATION

Hi-Wett® adjuvant is a proprietary non-ionic organosilicone surfactant blend for the application of fungicides, insecticides and plant growth regulators in horticultural and arable crops. This product lowers the surface tension of spray solutions well below commonly used surfactants, but, unlike most other silicone super-wetters, when used at recommended rates, this product 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. This product will also enhance the amount of product retained on the leaf surface at spraying.

Hi-Wett adjuvant readily disperses in spray solutions (aqueous and most non-aqueous). This product 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 this product 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 beforehand for crop phytotoxicity.

COMPATIBILITY

Hi-Wett adjuvant is compatible with most commonly used fungicides, herbicides, insecticides and plant growth regulators. Approved use with JMS Stylet-Oil only. Mixing ***Hi-Wett*** adjuvant with other spray oils may result in phytotoxicity. ***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.

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 this product 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.

NOT FOR AQUATIC USE IN WASHINGTON

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 this product 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.

SAMPLE

Hi-Wett **Use Rate (ounces/acre)**									
Crop Type	**pints and pounds of formulated chemical in spray mix per acre**								
	1	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**
	ounces of Hi-Wett per acre								
--Hard to wet field crops--	3.5		4.0	5.0	6.0	7.5	8.0	9.0	9.5
--Moderate to wet field crops--	2.5		3.5		4.0		5.0		5.5
--Easy to wet field crops--	1.5	2.0	3.0	4.0	5.0	5.5		6.0	6.5
Grape leaves, berryfruit leaves	2.5		3.5		4.0		5.0		5.5
Grapes and other berry fruit	6.5			7.5	8.0		9.0		9.5
Dense canopy trees* (e.g. citrus)	3.5				4.0		5.0		5.5
Open canopy trees (e.g. apple)	3.5				4.0		5.0		5.5
Instructions: Add up the pints and pounds of formulated chemical in the spray mix on a per acre basis and find that number in the top row of the above chart. Use that column to determine the appropriate use rate **per acre** for the crop you are spraying.									
* Citrus and Avocados - if using over 85 gpa add an extra 2.0 ounces of ***Hi-Wett*** for every 10 gpa over 85 gpa									

Examples of Crop Types
Hard to wet field crops: onions, peas, cereals, corn, turf, brassicas, etc.
Moderate to wet field crops: pumpkins, squash, melons, broad beans, beets, wild blueberries, etc.
Easy to wet field crops: potatoes, lettuce, tomatoes, soybeans, peanuts, etc.
Grape leaves and other berryfruit leaves: raspberries, cranberries, blueberries, black currants, etc.
Grapes and other berry fruit: raspberries, cranberries, blueberries, black currents, etc.
Dense canopy trees*: citrus, avocados, mangoes, hazelnuts, etc.
Open canopy trees: apples, stone fruit, cherries, almonds, etc.

The above table is intended to be used as a guide and is not all-inclusive. Since ***Hi-Wett*** adjuvant is used with a registered pesticide product, the user must follow the directions on the other pesticide product regarding dose rates, re-entry intervals, pre-harvest intervals, and rotation/re-planting intervals.

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 pound application of SURROUND into two applications each of 25 pounds per acre to ensure no nozzle blockages in the lowest water volumes.

Water volumes should be only 20% of full dilute if using conventional airblast equipement: e.g. if trees would be sprayed in 200 gallons of water per acre, apply ***Hi-Wett***/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 recalibration 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 per acre dilute then Quantum Mist sprayers will apply 20 to 30 gallons per 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. 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.
2. Not all formulations of chemicals behave the same with ***Hi-Wett*** adjuvant. Consult your local Crop Production Services Representative or the ***Hi-Wett*** adjuvant spray charts for the latest information on individual product spread antagonism before using new tank mixtures.
3. ***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.

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STORAGE & DISPOSAL

Do not contaminate water, food or feed by storage or disposal.
STORAGE: Keep in original container. Keep container tightly closed. 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: Dispose of contents/container on site or at an approved waste disposal facility.
CONTAINER DISPOSAL: Do not reuse empty container. Triple rinse (or equivalent) during mixing and loading. Recycling decontaminated containers is the best option of container disposal. The Agricultural Container Recycling Council (ACRC) operates the national recycling program. To contact your state and local ACRC recycler, visit the ACRC web page at www.acrecycle.org. Decontaminated containers may also be disposed of in a sanitary landfill.

For help with any spill, leak, fire or exposure involving this material, call day or night CHEMTREC 1-800-424-9300.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

BEFORE BUYING OR USING THIS PRODUCT, read the Directions for Use and the following Conditions of Sale and Limitation of Warranty and Liability. By buying or using this product, the buyer or user accepts the following Conditions of Sale and Limitation of Warranty and Liability, which no employee or agent of LOVELAND PRODUCTS, INC. or the seller is authorized to vary. LOVELAND PRODUCTS, INC. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, when the product is used in accordance with such Directions for Use under normal conditions of use. LOVELAND PRODUCTS, INC. MAKES NO OTHER WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THE BUYER'S OR USER'S EXCLUSIVE REMEDY FOR ANY INJURY, LOSS, OR DAMAGE RESULTING FROM THE HANDLING OR USE OF THIS PRODUCT SHALL BE LIMITED TO ONE OF THE FOLLOWING, AT THE ELECTION OF LOVELAND PRODUCTS, INC. OR THE SELLER: DIRECT DAMAGES NOT EXCEEDING THE PURCHASE PRICE OF THE PRODUCT OR REPLACEMENT OF THE PRODUCT. LOVELAND PRODUCTS, INC. AND THE SELLER SHALL NOT BE LIABLE TO THE BUYER OR USER OF THIS PRODUCT FOR ANY CONSEQUENTIAL, SPECIAL, OR INDIRECT DAMAGES, OR DAMAGES IN THE NATURE OF A PENALTY.

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