

## Water Enhancement

### Key Benefits

- The triple action chemistry provides a one stop shop for a surfactant that improves coverage, wetting with less water and better penetration.
- When added to irrigation systems or as a tank mix, UpTake PRO enhanced water may improve the delivery and performance of companion products.
- When used in drip irrigation systems, UpTake PRO reduces puddling and channeling at the plant's crown, thereby reducing the wet environment where algae and diseases flourish.
- Rain-fast, and biodegradable leaving no visible residue on crop foliage.



### Triple Action Enhances Water

UpTake PRO is a unique adjuvant chemistry designed to improve deposition, retention and wetting of water/solute in spray tank mixing and irrigation systems. UpTake PRO makes water wetter by reducing the surface tension between water and the soil or plant surface.

Adding UpTake PRO to your tank mix can boost the effectiveness of many pesticides by facilitating faster **penetration** and the **spreader sticker** component helps UpTake PRO provide a strong bond between the chemical and foliage for longer contact, even during irrigation or rainfall events.

### DESIRED IN-LINE RATES/WATERING EVENTS

APPLICATION	FINAL DILUTION		PULSE		EVENT SCHEDULE	
	Fl oz/100 gal	ppm	Time in Min	Duration in Min	Frequency in Days	Start Time in Days
CONTINUOUS						
Irrigation Systems	0.34-1.02	2-6	Total Event	Total Event	Continuous	Immediate
INTERMITTENT INDOOR						
Misting	0.34	2	2-5	5	every 7-10	Immediate
NFT hydroponics	0.34	2	2-5	5	every 7-10	2-4 after planting
INTERMITTENT OUTDOOR						
Nursery and Specialty Ag	0.34-1.02	2-6	Total Event	Total Event	Every 4th Event	

## Areas of Use

- Greenhouses
- CEA
- Hydroponics
- Outdoor Field Crops and Nurseries
- Fruit and Nut Orchards

## Applications

### How to Apply

Spray, Drench,  
Drip

- Manual hydraulic tank or backpack sprayers
- Inject into overhead/sub-irrigation systems
- Add to a tank mix

### When to Apply

- First watering and weekly for young plants
- Mature crops: Weekly or every other week
- Pre-ship watering
- Continuous injection in irrigation lines

### TANK MIX WATER/SOLUTE RATES

Areas of Use	fl oz/100 gal	ml/L	PPM	Frequency	Application
<b>Fungicide, Bactericide, Miticide or Insecticide Tank Mixing</b>					
<b>PROPAGATION</b>					
Spray or Dip	6	0.5	40	Weekly	Bedding/Perennials
	13	1.0	75	Weekly	Ornamentals
<b>WELL ROOTED</b>					
Spray or Dip	13	1.0	75	Bi-Weekly	Bedding/Perennials
	13	1.0	75	Weekly	Ornamentals
	25	2.0	150	Bi-Weekly	Ornamentals
<b>PRE-SHIP</b>	13	1.0	75	Pre-Shipping	All Crops
<b>Herbicide Tank Mixing</b>					
<b>PRE OR POST EMERGE</b>	100-200	781-1563	600-1200	NA	Weeds

### RATES FOR DIRECT INJECTION OF CONCENTRATED PRODUCT

ppm	ml/L	ml/100 gal	Fl oz/100gal	fl oz/gal	Injection Ratio
2	0.03	10.09	0.34	0.003	1 : 37,500
4	0.05	20.19	0.68	0.007	1 : 18,750
5	0.07	25.23	0.85	0.009	1 : 15,000
6	0.08	30.28	1.02	0.010	1 : 12,500
7	0.09	35.33	1.19	0.012	1 : 10,714
8	0.11	40.37	1.37	0.014	1 : 9,375
10	0.13	50.47	1.71	0.017	1 : 7,500

### RATES FOR INJECTION OF DILUTED PRODUCT

ppm	Ratio Setting	Stock fl oz/1 gal	%Stock Tank Solution
2	1 : 100	0.34	0.25
4	1 : 100	0.68	0.53
5	1 : 100	0.85	0.67
6	1 : 100	1.02	0.80
7	1 : 100	1.19	0.93
8	1 : 100	1.37	1.07

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