

UpTake PRO[®]

ADJUVANT · SURFACTANT · DEPOSITION AID · WETTING AGENT

Principal functioning agent:

N-decyl-N,Ndimethyl-,Chloride	7.5%
Constituents ineffective as spray adjuvant	92.5%
TOTAL	100%

All ingredients are exempt from the requirements of a tolerance under 40 CFR 180.

GENERAL INFORMATION

UpTake PRO is a unique adjuvant chemistry designed to improve deposition, retention and wetting of water/solute. Inject into overhead or sub irrigation systems for mist, drip, or spray applications, add to spray tanks for a manual spray to soils, plants, and pest surfaces, or use as a dip for bulbs and rooted or unrooted cuttings. Optimum application effects can be influenced by the crop, pest, application equipment, use volume, solute, and environmental factors. It is recommended that careful observations of the deposit be made, and adjuvant concentration adjusted accordingly.

DIRECTIONS FOR USE

NOT FOR AQUATIC USE

For use in agriculture, forestry, turfgrass, industrial and structural facilities. Use UpTake PRO in areas such as fields, orchards, nurseries, greenhouses, hydroponics, and controlled environment growing facilities. UpTake PRO can be used with herbicides, insecticides, miticides, bactericides, fungicides, and water-soluble fertilizers and applied using applicators such as a hydraulic, backpack, boom sprayer, or sub/overhead irrigation systems. Use an adequate volume of UpTake PRO to allow for uniform wetting and deposition of water/solute to targeted areas.

In all applications of UpTake PRO, read and follow directions on the UpTake PRO, pesticide(s) and water-soluble fertilizer label(s) as to procedures, use rates, timing of applications, including any use restriction in tank mixing, direct injection, use in stock tanks and crop use restrictions.

Due to possible improved deposition and penetration upon the addition of an adjuvant, some pesticide combinations may cause phytotoxicity to the foliage and/or fruit of susceptible crops. The addition of an adjuvant to some pesticide and/or water-soluble fertilizer mix combinations may cause physical incompatibility to the foliage and/or fruit of susceptible crops. Prior to the addition of UpTake PRO to spray mixes, the user or application advisor must have experience with the combination or must have conducted a small phytotoxicity trial or test compatibility using the jar test.

Follow the pesticide label application directions as to mixing with a surfactant and pesticide rate. Please note, if no surfactant use is recommended, or the label does not specifically prohibit a surfactant addition to the spray tank, UpTake PRO may be used in a trial at the label specified rates/application intervals to test compatibility.

SPRAY APPLICATIONS

Use 6 to 25 fl. oz. of UpTake PRO per 100 gallons of spray (0.05-0.20% v/v) every 7 to 14 days when applying to crops. For propagation, use 6 to 13 fl. oz. per 100 gallons of spray (0.05-0.11% v/v). When mixing with a pre or post herbicide use 100 to 200 fl. oz. per 100 gallons of spray (0.8-1.6% v/v). When using UpTake PRO with selective herbicides, avoid getting spray solution on crops.

Spray Tank Mixing : Prior to any application, all spray mixing and application equipment must be thoroughly cleaned.

1. Fill spray tank ¾ full with water and start agitation.
2. When adding pesticides and/or water soluble fertilizers, mix as directed by the pesticide and/or fertilizer label.
3. If agitating, REDUCE the agitation to a gentle mix when adding UpTake PRO to the solution. Lower agitation is sufficient for mixing UpTake PRO and will reduce any excessive foaming.

Do not mix UpTake PRO with undiluted pesticides, fertilizers or micronutrients.

OVERHEAD/ SUB-IRRIGATION SYSTEM APPLICATIONS

Use UpTake PRO during watering events for overhead/sub-irrigation or for chemigation as either a continuous or intermittent injection. Add UpTake PRO to irrigation water such that the final inline dilution is 2 to 10 ppm (0.34 to 1.71 fl. oz. per 100 gallons). The ratio setting will vary depending on device and set-up of irrigation system. For best accuracy when injecting into an irrigation system a metering pump, proportional pump or volumetric injector is recommended. To confirm injector setting for desired inline rate, check ppm level just after the injector and at the end of the irrigation line.

To achieve the desired inline rate for continuous or intermittent injection, use the below settings for *Direct Injection* of concentrated product or *Diluted Injection* from UpTake PRO.

Do not add UpTake PRO to fertilizer or pesticide stock tanks.

Direct Injection of Concentrated Product: Set injector between 1:37,500 to 1:5,000.

Diluted Injection: Dilute the concentrate to inject the desired rate.

Continuous Injection: for drip or spray applications

Set injector to inject at each watering event to maintain a 2 to 10 ppm level inline. Generally, the injector setting required for these inline rates is 1:15,000 to 1:5,000 (5 to 15 ppm).

Intermittent Injection: for misting or hydroponics

Set injector to inject once every 7 to 10 days per the listed below. For NFT hydroponics, start injection 2 to 4 days after placement of young plants into channels.

ppm	Pulse Frequency	Pulse Duration
1-4 ppm inline	3-8 minutes	1-4 minutes

Intermittent Outdoor Injection: For nursery and specialty agriculture, set injector to inject during a portion of each watering event. The injection event will depend on the total number of watering events. Testing to determine number of watering events for injection may be needed. Use the below information as a guide for setting the pulse frequency and duration per desired ppm level.

- ▶ ppm Setting: 2 to 10 ppm
- ▶ Pulse Frequency: 10% or greater than the irrigation event for a zone. For best results treatment needs to travel from the point of injection to the furthest emitter.
- ▶ Pulse Duration: For best results treat to the end of the watering event.

See Pace representative for more information.

BULB, ROOTED OR UNROOTED CUTTING DIP

Add 6 to 25 fl. oz. of UpTake PRO per 100 gallons of water (0.05-0.20% v/v) to a dip tank. To improve wetting, dip plant material into dip solution and submerge for 5 seconds to 5 minutes depending on type of plant material. Remove and plant or hold in cold storage.

Bulbs:

- ▶ Add 13 to 25 fl. oz. of UpTake PRO per 100 gallons of water and submerge for 5 minutes.

Rooted or Unrooted Cuttings:

- ▶ Add 6 fl. oz. of UpTake PRO per 100 gallons of water for soft plant materials and submerge for 5 to 30 seconds.
- ▶ Add 13 to 25 fl. oz. of UpTake PRO per 100 gallons of water for woody plant materials and submerge for 5 minutes.

CONDITIONS OF SALE

This product is to be used and applied according to the label directions by professionals trained in the use of agricultural chemicals. This material is not intended for use by, nor should be used by, consumers. Pace 49, Inc, and the seller warrants that this product conforms to the chemical description on the label.

The directions for use on this label are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Insufficient performance or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions or good application practices, all of which are beyond the control of Pace 49, Inc., or the seller.

This product is to be used and applied according to the label directions by professionals trained in the use of agricultural chemicals. This material is not intended for use by, nor should be used by, consumers. The Pace 49, Inc, and the seller warrants that this product conforms to the chemical description on the label.

Keep out of reach of children.

STORAGE AND DISPOSAL

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

Storage: Store between 32°F and 100°F in original container.

Container Disposal: Do not reuse empty container. Before discarding empty container, rinse thoroughly with water and dispose of the rinsate in accordance with federal, state and local regulations.

FLAMMABLE LIQUID AND VAPOR

CAUSES SEVERE SKIN BURNS AND EYE DAMAGE

PRECAUTIONARY STATEMENTS:

DANGER

CORROSIVE. Causes severe skin burns and eye damage. Wash hands and any affected area thoroughly after handling. Wear protective gloves/ protective clothing/ eye protection/ face protection.

FIRST AID:

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help. **IF ON SKIN:** Take off immediately all contaminated clothing. Immediately rinse with water for several minutes. Wash contaminated clothing before reuse. **IF INHALED:** Remove person to fresh air and keep comfortable for breathing. **IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting. IF exposed or concerned: Get emergency medical help immediately. Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.

PHYSICAL HAZARDS: Flammable liquid and vapors. Keep away from heat, hot surfaces, sparks, open flames, and other ignition sources. No smoking.

Flammable liquid and vapor for open containers per GHS. This material is not classified as flammable for transportation and warehousing as it does not sustain combustion according to ASTM D4206.

UpTake PRO is a registered trademark of Pace 49 Inc.