

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, plant, and pest surfaces, or use as a dip for bulbs and rooted or unrooted cutting. 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 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. *When mixing with a water-soluble fertilizer, DO NOT ADD UpTake PRO to the fertilizer stock tank. For use with a water-soluble, fertilizer mix at recommended use rates for both products and apply using a spray tank or inject into irrigation system.*

SPRAY APPLICATIONS

Use 6 to 25 fl oz of UpTake PRO per 100 gallons of spray (0.05-0.20% v/v) when applying to crops. For propagation use 6 to 13 fl oz per 100 gallons and for mature crops use 13 to 25 fl oz per 100 gallons of spray. 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 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 in-line dilution is 2 to 10 ppm. The exact 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 in-line rate, check ppm level just after the injector and at the end of the irrigation line.

To achieve the desired in-line rate for continuous or intermittent injection, use the below settings for *Direct Injection* of concentrated product or *Diluted Injection* from an UpTake PRO **dedicated** stock tank. Do not add UpTake PRO to fertilizer stock tank.

Direct Injection of Concentrated Product: Set injector between 1:37,500 to 1:18,800

Diluted Injection: Set lower between range of 1:50 to 1:500. Using an UpTake PRO only stock tank, 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 in-line. Generally, the injector setting required for these rates is 5 to 15 ppm.

Intermittent Injection: for misting or NFT hydroponics

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

PPM Setting	Pulse Time	Pulse Duration
2 ppm inline	5 minutes	2 minutes

Intermittent Indoor Injection: For misting or NFT hydroponics set injector to inject every 7 to 10 days per the watering event listed below. For NFT hydroponics, start injection 2 to 4 days after placement of young plants into channels.

Intermittent Outdoor Injection: For nursery and specialty agriculture set injector to inject between every and every other fourth watering event. Use the below as a guide for setting the pulse time and duration per desired ppm level.

- ▶ PPM Setting: 2 to 10 ppm
- ▶ Pulse Time: 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. Dip plant material into dip solution and hold for 30 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 material and submerge for 30 seconds.
- ▶ Add 13-25 fl oz of UpTake PRO per 100 gallons of water for woody plant material and submerge for 5 minutes.

CONDITIONS

In all mix applications of UpTake PRO, read and follow directions on the pesticide(s) and fertilizer(s) label(s) as to procedures, rates, timing of applications, and restrictions for the crop on which the pesticide(s) or fertilizer(s) are to be applied. 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 use of test areas is recommended.

Follow the pesticide label application directions as to mixing with a surfactant and pesticide rate. However, if no surfactant use is recommended, and if the label does not specifically prohibit a surfactant addition to the spray tank, UpTake PRO may be trialed at the label rates/application intervals for compatibility.

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 VAPOUR

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:** Probably 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 vapour 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.

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