

# UPTAKE

## 3-n-1 SOIL ADJUVANT • WETTING AGENT • PENETRANT

Guaranteed Analysis

Active Ingredient: Didecyl dimethyl ammonium chloride:  
**7.5%**

Registration Number **2015072S** Fertilizers Act

### DIRECTIONS OF USE

#### Areas of Use

UpTake is a soil adjuvant and wetting agent designed for use with turf grass, trees, nursery stock, greenhouses, and field crops such as flowers and ornamentals. Do not apply to food crops.

UpTake increases penetration of water through soil, resulting in improved root growth and plant quality. Improved performance of fertilizers is obtained when UpTake is added through drip-irrigation systems or mix tanks. If unfamiliar with UpTake in any application, test a small area first before proceeding.

In hot and dry conditions, pre-wet the affected area before applying the UpTake solution. To target specific areas, use a fertilizer applicator or backpack sprayer for best results.

- ▶ Do not discharge UpTake and its used solution into lakes, streams, ponds, or other waterbodies.
- ▶ UpTake and its used solution should not be used around waterbodies.
- ▶ Use in greenhouses: UpTake should only be used inside greenhouses that have a proper drainage/reclamation system to prevent treated water from migrating to lakes, streams, ponds, or other water bodies.

To reduce runoff from treated areas into aquatic habitats:

- ▶ Do not apply UpTake within a minimum distance of 3 m of waterbodies.
- ▶ Avoid application to areas with a moderate to steep slope, compacted soil, or clay.
- ▶ Avoid application when heavy rain is forecast.

Didecyl dimethyl ammonium chloride has been shown to impair the development and yield of some plants when applied via hydroponics, we recommend testing on a small scale before application to new crops.

#### To Treat Localized Dry Spot (LDS) - Golf Courses, Athletic Fields, Commercial and Residential Turf

UpTake is designed to help prevent and cure Localized Dry Spot (hydrophobic soil), without having to irrigate after application. UpTake increases the performance of fertilizers by improving soil penetration.

- ▶ To prevent Localized Dry Spot or treat moderate outbreaks, apply UpTake at a dilution of 4 ml per litre per 8 litres per 100 m<sup>2</sup> every 14 days
- ▶ To treat severe Localized Dry Spot, apply two applications of UpTake at a dilution of 8 ml per litre at 16 litres per 100 m<sup>2</sup> every 14 days, then resume using the lower rate.

#### APPLICATION RATES

Continuous Injection	0.03-1.0ml per litre
Weekly	1.5-2.0ml per litre
Every 2 Weeks	1.0-8.0ml per litre
Every 2-3 Weeks (Fields Only)	15.0-60.0ml per litre

#### Fertilizer Additive for Outdoor and Greenhouse Drip Irrigation Systems

Inject UpTake into fertilizer line for outdoor and greenhouse drip irrigation systems at rates between 1.0-4.0 ml of UpTake per litre of water depending on the plant type and maturity. Apply once every 1-2 weeks to the stems, to a maximum of ten times per year.

#### Continuous Injection for Outdoor and Greenhouse Drip Irrigation Systems

Inject UpTake into fertilizer line for outdoor and greenhouse drip irrigation systems on a continuous basis at rates between 0.03-0.1 ml of UpTake per litre irrigation water to help with soil conditions and fertilizer uptake.

#### Drench, Sprench, or Spray

Use UpTake to control and prevent hydrophobic soil conditions when irrigating with sprinkler or sprayer or overhead watering. Apply at rates between 1.0 -4.0 ml of UpTake per litre of water once every 2 weeks to the stems or growing bags or pots, to a maximum of 8 times per growing season.

#### Information regarding the contents and levels of metals in this product can be found at: <http://www.aapfco.org/metals.htm>

Do not breathe mist, vapors or spray. Wash face, hands and any exposed skin thoroughly after handling. Wear protective gloves, clothing, eye and face protection. Store locked up. Dispose of contents and container to an approved waste disposal plant. Keep in original container and away from heat, open flames, combustible materials and hot surfaces. No smoking.

**FIRST AID:** Specific Treatment (See Section 4 on the SDS).

**IF IN EYES:** Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER or doctor/physician.

**IF ON SKIN (or in hair):** Remove/take off immediately all contaminated clothing. Rinse skin with water/shower. Wash contaminated clothing before reuse.

**IF INHALED:** Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/physician.

**IF SWALLOWED:** Rinse mouth. Do NOT induce vomiting.

### KEEP OUT OF REACH OF CHILDREN

#### PRECAUTIONARY STATEMENTS:

For use in greenhouses, workers shall wear chemical resistant coveralls with elastic face hood designed to accommodate full-face respirator, chemical resistant gloves, rubber boots and a full-face respirator with either a NIOSH/MSHA/BHSE approved organic-vapour removing cartridge with pre-filter approved for pesticides, or a NIOSH/MSHA/BHSE approved canister, approved for pesticides, during mixing, loading, application, cleanup and repair. Do not allow greenhouse workers to enter area during treatment. Ventilate prior to entry. Do not re-enter treated areas for 48 hours. Re-entry interval does not apply to irrigation line applications up to 0.26 ml per litre (20 ppm of active ingredients).

#### ENVIRONMENTAL PRECAUTIONS

This product is toxic to fish and other aquatic organisms. It is not to be used in circumstances that would cause or allow it to enter lakes, streams, ponds, estuaries, oceans or other waters in contravention of federal or provincial regulatory requirements. Do not discharge effluent containing this product into sewer systems without previously notifying the sewage treatment plant authority.

This product may be toxic to bees and other beneficial insects. May harm bees and other beneficial insects, including those used in greenhouse production. DO NOT apply when bees or other beneficial insects are actively visiting the treatment area.

#### DISPOSAL:

1. Triple or pressure rinse the container thoroughly and add the rinsings to the treatment site.
2. Follow provincial instruction for any required additional cleaning of the container prior to its disposal.
3. Make the container unsuitable for further use.
4. Dispose of the container in accordance with provincial requirements.
5. For information on the disposal of unused, unwanted product, contact the provincial regulatory agency or the manufacturer. Contact the provincial regulatory agency or the manufacturer in case of a spill and for clean-up of spills.



## DANGER

**FLAMMABLE LIQUID AND VAPOUR  
CAUSES SEVERE SKIN BURNS AND EYE DAMAGE**