

WaterSOLV™ Solutions

Drip Line, Emitter Cleaning

WATER + WaterSOLV™ Curative + WaterSOLV™ BC = LineOut™ Drip Line, Emitter Cleaning

- The reaction products are perhaps the greatest cleaner available in the marketplace.
- Very powerful acid, peroxide, and by-product called peracetic acid.
- In turn you clean scale and bio matter faster and better than any alternative, even better than chlorine dioxide.
- Inject one product, however you'll need to prepare the product on site, at the point of injection.
- Bio-degradation products: water and bound soil scale and fertilizer to nutrition. Sodium detoxification, Dissolved oxygen and water into the soil profile. Anticipate growth spurts and visual vitality.
- Increases the solubility and availability of most fertilizers in water and soils.

Supplies

275 gl. Tote filled 60% with water (165 gallons)
82.5 gl. WaterSOLV™ Curative (30%)
27.5 gl. WaterSOLV™ BC (10%)

Application Rates

Aggressive Cleaning 15 ppm
Maintenance dosages (perform HCT specific water analysis, contact HCT)

Calculations

$(\text{GPM, Flow Rate} \times \text{PPM Application Rate}) \times 0.0006 = \text{GPH}$
Injection Rate (typically 1 to 2 ppm – dependent on water quality – 0.14 to 0.33 GPH)

Procedures

Always add products, individually into water
Always observe personal protection equipment
Always have an eye wash station per person within 6 seconds or less unobstructed access
Always have a safety shower – 55 gl. water per person exposed to chemistry

Inject material at instructed or prescribed rates
Allow contact time 30 minutes minimum (or more)
Repeat process until the lines are clear (pressure minimized)
36 hours is the maximum feasible time for cleaning activity

Discharge/effluent is beneficial for most soils and crops. Ideally flush inline through emitters. Ideally water 1 to 2 cycles after discharging the effluent to enhance sodium flushing from soils.
Overhead Spray Equipment: Apply at 1/2 strength values
Metal Tubing - After use, rinse system/surfaces with soda water (sodium bicarbonate and water) to passivate the surface, minimizing oxidation and rust.

Injection Point - As close to the system you are trying to clean as possible, perhaps after the pump station backwash.

Component Compatibility - Must use components compatible with water treated like a swimming pool.



FREQUENTLY ASKED QUESTIONS

May I use more than the prescribed amount. NO - Not without doing some research. The removal of scale flakes can occur plugging flow.

If my lines are plugged, no flow, is this going to help me? Maybe, depending on how bad the blockage is. If the blockage is light, it will probably wick through. If the blockage is heavy, it probably will not.

Will this fix root intrusion? NO, if the roots are already intruded.

Will this help deter root intrusion? Yes, by making water available to the root in the soil, versus the root chasing water into the emitter.

Can the cleaner be left in the line indefinitely? Yes

Is there a seasonal layup recommendation? Yes. Treat the water, then flush the lines, avoiding scale and nutrition for algae and bacteria.

Can we supplement fertilizer with the product to increase its' solubility, and to help prevent it from evaporating and crystalizing? Yes, but always check compatibility. Always best to test than guess.

Chemical Usage, inches

per million gallons

Product ppm	55 gl drum inches	275 gl tote inches
0.5	0.8	3.1
1	1.6	6.1
1.5	2.4	9.2
2	3.2	12.2
2.5	4.0	15.3
3	4.8	18.3
3.5	5.6	21.4
4	6.4	24.4
4.5	7.2	27.5
5	8.0	30.5
5.5	8.8	33.6
6	9.6	36.6
6.5	10.4	39.7
7	11.2	42.7
7.5	12.0	45.8
8	12.8	48.8



HCT, LLC | (888) 788-5807 – info@hctllc.com | www.hctllc.com | See our YouTube Channel Videos!

Sustainable Chemistry & Biology for Agronomy

Over 3,000,000 acres of agronomy served in 4 years | Over 800 wells rehabilitated / restored.

Well-Klean®, WaterSOLV™ and Water Treatment for Agronomy™ are trade names of HCT, LLC

Select products are accredited by NSF Standard 60, ANSI, Standards Council of Canada, and the California Department of Food & Agriculture