



LICENSED

PERIOD 2014-2016 LIC. NO.

9454.226



LICENSED

PERIOD 2011-2013 LIC. NO.



LICENSED

PERIOD 2008-2010 LIC. NO.

DISC.



Cut to Open

Prescription Treatment[®] brand Ultra-Shield[™]

Chlorine Dioxide Water Treatment System

Disinfectant/Sanitizer/Algaecide/Bactericide/Fungicide

FOR USE IN: Commercial Ornamental Greenhouses, Nurseries, Shade Houses, Garden Centers and Florists

ACTIVE INGREDIENTS:

Sodium Chlorite 20.8%
Sodium Dichloroisocyanurate dihydrate 7.0%

OTHER INGREDIENTS: 72.2%

TOTAL: 100.0%



**KEEP OUT OF REACH OF CHILDREN
DANGER**

Aseptrol and the Aseptrol logo are registered trademarks of BASF
*Ultra-Shield is a registered trademark of W.F. Young

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

DANGER: Corrosive. Causes irreversible eye damage and skin burns. May be fatal if absorbed through skin. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses), protective clothing and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

GENERAL MIXING AND DELIVERY DIRECTIONS

- To water in stock tank, add appropriate number Ultra-Shield packages to generate desired concentration of stock solution. Once open, always utilize entire contents of moisture resistant, sealed packs. Do not attempt to use or store partial packages of chlorine dioxide tablets. Round up to the nearest package size since packages cannot be resealed. Depending on tank volume and required concentration, more than one package size may be required.
- Spray/stock tank: (Desired ppm in tank) x (volume of water in tank (gallons))/21.19 = grams of Ultra-Shield required.

Use only in accordance with the directions and precautions on the full label accompanying the product.

See full label for First Aid, additional Precautionary Statements, complete Directions for Use and Storage and Disposal.

EPA Reg. No. 70060-29-499 • EPA Est. No. 66397-OK-01

Contains 17 x 6g tablets
NET WEIGHT: 3.5979 oz (102 g)
Patent: 6,699,404

18-0437-01



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RESEARCH LABORATORIES, INC.
3568 Tree Court Industrial Blvd.
St. Louis, MO 63122-6682
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Prescription Treatment® brand

Ultra-Shield™

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EPA Reg. No. 70060-29-499 • EPA Est. No. 66397-OK-01

Contains 250 x 6g tablets
NET WEIGHT: 3.5979 oz (102 g)
Patent: 6,699,404



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KEEP OUT OF REACH OF CHILDREN

DANGER

See inside for Precautionary Statements, Directions for Use and Storage and Disposal.

EPA Reg. No. 70060-29-499 • EPA Est. No(s). 499-MO-1 and/or 66397-OK-01

Patent: 6,699,404



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FIRST AID

IF IN EYES: Hold eyes open and rinse slowly and gently with water for 15 - 20 min. Remove contact lenses, if present, after the first 5 min, then continue rinsing eyes. Call a poison control center or doctor for treatment advice.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN OR CLOTHING: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15 - 20 min. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling poison control center or doctor, or going for treatment.

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

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ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms.

DIRECTIONS FOR USE

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Ultra-Shield is a unique formulation of sodium chlorite that rapidly produces the biocidal agent, chlorine dioxide, when mixed with water.

Ultra-Shield treats, controls and inhibits:

- Algae, slimes and microbes
- Bacterial and fungal plant pathogens that exist in growing areas or those commonly spread by water in production and irrigation systems such as Phythium, Phytophthora, Fusarium, Thielaviopsis, Erwinia, and Ralstonia
- Viral plant pathogens

Use to disinfect, control and inhibit algae, slimes, microbes, bacterial and fungal pathogens on or in:

- Hard nonporous surfaces and equipment
- Irrigation systems – recirculating and nonrecirculating
- Evaporative cooling systems

Can be used in all ornamental greenhouses, nurseries, shade houses, garden centers, and florists to disinfect, sanitize, treat and inhibit algae, microbes, bacterial, fungal and viral plant pathogens on or in:

- Hard nonporous surfaces in all production, growing and holding areas such as: equipment, benches, containers, tools, irrigation lines and equipment, evaporative cooling systems, tanks, transfer lines and transport containers and equipment
- Irrigation systems both recirculating and nonrecirculating

GENERAL MIXING AND DELIVERY DIRECTIONS

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- Spray/stock tank: (Desired ppm in tank) x (volume of water in tank {gallons})/21.19 = grams of Ultra-Shield required.
- There are three variables to determine final hose end output. 1) Stock tank concentration (ppm); 2) Injection setting; 3) Organic material in the water that degrades the chlorine dioxide. Varying any or all three can change the final output. Use Table 2 to see if your calculations are close to those. If not call customer service at 800-777-8570.
- Always use caution when opening the stock tank to avoid overexposure to the chloride dioxide gas present in the headspace of the stock tank. Safety glasses, gloves, and appropriate breathing apparatus are recommended for handlers of stock solution and tablets.
- Stock solution should be kept in a sealed tank suitable for oxidizers. To retain stock concentration for longer periods of time, it is recommended to reduce surface to air contact of stock solution within the stock tank by floating a barrier on the stock solution surface or utilizing a collapsible stock tank. Frequent or in line monitoring of stock and delivery (hose end output) concentrations are recommended to ensure desired concentrates are achieved.
- Prevent chlorine dioxide gas in headspace of the stock tank from reaching concentrations of 10%. Do not exceed stock concentrations of 3,000 ppm in the liquid.
- Filtration to 100 microns or less may be beneficial in irrigation systems prior to injection of chlorine dioxide.
- Standard injection or dosing equipment can be used to deliver chlorine dioxide into irrigation system. In the absence of a holding tank or pool, a blending tank located after injection is recommended to ensure thorough mixing and contact with target organisms.

This product has been tested on a wide range of plants and, in our opinion, has demonstrated excellent plant safety. However, not all plants or varieties have been tested. Therefore, before treating a large number of plants, spray a few plants and observe for plant damage prior to full scale application.

HARD NONPOROUS SURFACES, EQUIPMENT IRRIGATION SYSTEMS AND EVAPORATIVE COOLING SYSTEMS

- Use Ultra-Shield to disinfect hard nonporous surfaces and tools. Use a 200 ppm chlorine dioxide solution.
- When applying to hard nonporous surfaces, a coarse spray nozzle is recommended. Spray solution 8 - 12" from surface. Allow surface to remain wet for 10 min.
- Initial Shock Treatments in irrigation lines requires 20 ppm for 12 hr or longer. Test water at hose end for residual chlorine dioxide. If chlorine dioxide reading is less than 0.01 ppm, repeat shock treatment until a residual concentration of chlorine dioxide is above 0.01 ppm. Avoid irrigating crops until system has been thoroughly rinsed and flushed with fresh water.
- Maintenance of evaporative cooling systems requires 0.25 - 1.0 ppm continuous output in the tank. Use only on clean pads with clean or filtered water. Test and replenish chlorine dioxide concentration weekly or as needed.

RECIRCULATING AND NONRECIRCULATING IRRIGATION SYSTEMS

Organic load in water and irrigation systems vary by individual source and systems thus influencing input rates. Input rates may vary from 0.20 - 20 ppm depending on water source, organic load, and contact time. Initial and regular testing of water quality, chlorine dioxide concentration of stock solution and chlorine dioxide output concentration, at hose end, is recommended to determine the necessity of filtration, proper input rates and calibration in order to achieve desired output. Higher rates may be required when contact times are shorter.

- Continuous maintenance treatment in propagation misting systems may be done at 0.01 ppm - 0.25 ppm maximum hose end output. The following table provides a guideline for output concentration and application frequencies.

Hose End Output Concentration (ppm)	Application(s) permitted per 24 hr
0.01	200
0.05	40
0.10	20
0.15	13
0.20	10
0.25	8

- Continuous treatment in irrigation systems, both recirculating and nonrecirculating, may be done at 0.01 ppm - 0.5 ppm maximum hose end output.

Stock Tank Concentration Desired	Stock Volume grams of tabs		Final ppm with Injector Setting			
	g/gal	5 gal	100 gal	1:100	1:200	1:1,000
2,000 ppm	94	472g	9,438	20	10	2
200 ppm	9.4	47g	940	2	1	0.2
20 ppm	0.94	4.7g	9.4	0.2	0.1	0.02

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration and in an area inaccessible to children.

PESTICIDE DISPOSAL (≥ 5 LBS): Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Place empty pouch or blister pack and container in plastic bag and discard in trash.

Notice: Seller expressly warrants that the product conforms to its chemical description. There are no warranties associated with the sale of this product, either expressed or implied, including but not limited to the warranties of fitness for a particular purpose.