



U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs
Antimicrobials Division (7510C)
1200 Pennsylvania Avenue NW
Washington, D.C. 20460

EPA Reg. Number: 70060-29

Date of Issuance: SEP 15 2006

Term of Issuance: Conditional

Name of Pesticide Product: Aseptrol S10-Tab GH

NOTICE OF PESTICIDE:

- x Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Engelhard Corporation
101 Wood Avenue
Iselin, NJ 08830-0770

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This product is conditionally registered in accordance with FIFRA sec 3(c)(7)(A) provided that you:

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and submit acceptable responses required for re-registration of your product under FIFRA section 4.
2. Make the labeling changes listed below before you release the product for shipment:
a. Revise the "EPA Registration Number to read, "EPA Reg. No. 70060-29".

Signature of Approving Official:

Emily Mitchell
Emily Mitchell
Product Manager Team-32
Regulatory Management Branch II
Antimicrobials Division (7510P)

Date:

SEP 15 2006

b. The public health claims for **Pseudomonas** and **Mold** have been removed from the label. This product is a non-public health product.

c. The certified limits as disclosed in items 13 a&b and 14 a&b of the proposed Basic Confidential Statement of Formula are incorrect for the first Dessicant/Stabilizer. Please change the certified limits to the level and limits given in Alternate Formulation #1.

3. Submit three (3) copies of your final printed labeling before distributing or selling the product bearing the revised labeling.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Sincerely,

*Emily Mitchell*  
Emily Mitchell  
Product Manager 32  
Regulatory Branch II  
Antimicrobials Division (7510P)

Enclosure: (Stamped Label)

FIRST AID

**If in eyes:**

- Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- 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 minutes.
- 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.

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.

ENVIRONMENTAL HAZARDS

This product is toxic to fish and aquatic organisms.

(If container size is greater than 50 lbs add the following statement:)

Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

**Aseptrol S10-Tab GH**

**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%
<b>Other Ingredients.....</b>	<b>72.2%</b>
<b>Total.....</b>	<b>100.0%</b>

KEEP OUT OF REACH OF CHILDREN

**DANGER**

See side panel for first aid and precautionary statements.

EPA Reg. No. 70060-  
EPA Est. No. \_\_\_\_\_

Net Weight:

(Expiration Date:)

Manufactured by:  
Engelhard Corporation  
Iselein, NJ 08830

**ACCEPTED**  
with **COMMENTS**  
EPA Letter Dated:

Patent: 6,699,404

SEP 15 2006

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No.

70060-29

[contains]



[Aseptrol and the Aseptrol logo are trademarks of Engelhard Corporation]

[Sodium Chlorite in this product is from Spain]

**Aseptrol S10-Tab GH** is a unique formulation of sodium chlorite that rapidly produces the biocidal agent chlorine dioxide when mixed with water.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

**Aseptrol S10-Tab GH** treats, controls, and inhibits:

- Algae, slimes, [redacted] 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*, [redacted], *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

- To water in stock tank, add appropriate number **Aseptrol S10-Tab GH** 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 **Aseptrol S10-Tab GH** required.
- There are three variables to determine final hose end output. Stock tank concentration (ppm), injection setting and 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 chlorine 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 concentrations are achieved
- Prevent chlorine dioxide gas in headspace of the stock tank from reaching concentrations of 10 percent. Do not exceed stock concentrations of 3000 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 **Aseptrol S10-Tab GH** 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 to 12 inches from surface. Allow surface to remain wet for 10 minutes.
- Initial shock treatment in irrigation lines requires 20 ppm for 12 hours 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 to 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 to 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 to 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 hours
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 to 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	1:1000
2000ppm	94	472g	9438	20	10	2
200ppm	9.4	47g	940	2	1	.2
20ppm	94	4.7g	9.4	0.2	.1	.02

**STORAGE AND DISPOSAL**

Store this product in a cool, dry area away from direct sunlight and heat to avoid deterioration and in an area inaccessible to children. Place empty pouch or blister pack and container in plastic bag and discard in trash.

(If container size is greater than 5 lbs add the following statement:)

**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:** 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.