

61842-12

09/10/2007

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U.S. ENVIRONMENTAL PROTECTION AGENCY

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

EPA Reg. Number: 61842-12

Date of Issuance: September 10, 2007

Term of Issuance: Unconditional

Name of Pesticide Product: Polyquat

NOTICE OF PESTICIDE:

- x Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Tessengerlo Kerley Trading, Inc.
P. O. Box 15267
2255 North 44th Street
Phoenix, Arizona 85008-3279

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 unconditionally registered in accordance with FIFRA sec 3(c)(5) 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. 61842-12"

Signature of Approving Official:

Adam Heyward
Product Manager Team-34
Regulatory Management Branch II
Antimicrobials Division (7510P)

Date:

September 10, 2007

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,



Adam Heyward  
Product Manager 34  
Regulatory Branch II  
Antimicrobials Division (7510P)

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# Polyquat

**ACTIVE INGREDIENT:**

WSCP: Poly[oxyethylene(dimethyliminio)ethylene(dimethyliminio)ethylene dichloride]..... 60.0%

**OTHER INGREDIENTS:**..... 40.0%**TOTAL:**..... 100.0%

## KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID	
<b>If in eyes:</b>	<ul style="list-style-type: none"> <li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li> <li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If on skin or clothing:</b>	<ul style="list-style-type: none"> <li>• Take off contaminated clothing.</li> <li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li> <li>• Call a poison control center or doctor for treatment advice.</li> </ul>
<b>If swallowed:</b>	<ul style="list-style-type: none"> <li>• Call a poison control center or doctor immediately for treatment advice.</li> <li>• Have person sip a glass of water if able to swallow.</li> <li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li> <li>• Do not give anything by mouth to an unconscious person.</li> </ul>
<b>If inhaled:</b>	<ul style="list-style-type: none"> <li>• Move person to fresh air.</li> <li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth if possible.</li> <li>• Call a poison control center or doctor for further treatment advice.</li> </ul>
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-877-1737 for emergency medical treatment information.	

### PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION.** Harmful if swallowed. Avoid breathing vapors. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling.

EPA Reg. No. 61842-

EPA Est. No.

**Manufactured for:**

Tessenderlo Kerley, Inc.  
2255 North 44<sup>th</sup> Street, Suite 300  
Phoenix, AZ 85008-3279  
1-888-732-8246

ACCEPTED  
with COMMENTS  
EPA Letter Dated:

Net Weight:

SEP 10 2007

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act as  
amended, for the pesticide,  
registered under EPA Reg. No. 61842-12

### ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic organisms. 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.

### DIRECTIONS FOR USE

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

Polyquat is a broad spectrum microbiocide used to control the growth of algae in

• Swimming pools, outdoor whirlpools spas, and hot tubs, and  
to control algae, bacteria, mollusks and fungi in:

- Industrial cooling systems, airwashers, influent water systems
- Decorative fountains
- Industrial starch solutions, and

to control the growth of bacteria in:

- Metalworking fluids

**Industrial Fresh Water Systems:** Polyquat is used to control the growth of bacteria and fungi in holding and processing tanks of industrial fresh water systems supplying water to pulp and paper mills textile mills, and other manufacturing plants. In such systems, it is employed as a replacement for or supplement to the conventional treatment with chlorine or chlorine compounds. In pulp and paper mills, treatment of the fresh water with Polyquat can make an important contribution to slime control. The use of Polyquat as described will reduce the development of slime in fresh water pipes, fresh water spraying nozzles, and on the pulp and paper mill machine parts contacted by fresh water. However, Polyquat is not recommended for use as the primary microbiocide for pulp and paper mill slime control since absorbents such as wood pulp rapidly absorb the product and greatly reduces its concentration in the circulating water.

**NOTE: Do not use in paper and paperboard that will contact food.**

- For the control of algae, bacteria, and fungi in industrial fresh water systems, Polyquat is added at the rate of 1 to 11 fl. oz. of Polyquat per 10,000 gallons of water to provide a concentration of 1 to 10 ppm Polyquat. Treatment is usually made continuously and should be based on the amount of water entering the intermediate processing operations. In some cases, regular treatment periods of several hours each day will provide adequate control of the microorganisms.
- Prior to the use of Polyquat in water cooling towers, systems should be cleaned to remove algal growth, microbiological slime, and other deposits. Then make an initial slug additional of 0.9 to 2.2 fl. oz of Polyquat per 1000 gallons of water to provide 8 to 20 ppm Polyquat, based on the total weight of water in the system. Repeat initial dosage until control is evident. Make subsequent slug additions of 0.2 to 2.2 fl. oz. of Polyquat per 1000 gallons of water (2 to 20 ppm Polyquat) every 2 to 5 days or as needed. The frequency of addition depends upon the relative amount of bleed-off and the severity of the microbiological problem. Slug additions should be made in the sump of water cooling towers.
- To control mollusks such as *Corbicula* species in recirculating or once-through cooling water and industrial systems, add Polyquat at dosage rates of 2 to 20 ppm. Additions should be made continuously or intermittently to the intake water. Continuous addition is required for noticeably fouled systems. Intermittent feeding is used to maintain control.

- Polyquat is used to control algae and mollusks such as *Corbicula* and *Dreissena* species in potable water treatment systems. Mitigation: Add Polyquat to the raw water at dosage rates of 2 to 5 ppm (2 to 5 mL of Polyquat per 1000 liters of water). For badly fouled systems, treatment should be continuous for up to 21 days, followed by regular control treatments. Control: to avoid fouling of potable water systems by mollusks, treat the raw water at 2 ppm for 60 minutes, repeating this treatment daily or a continuous feed at 0.5 mg/liter.
- Polyquat is used to control bacteria in industrial air washing systems that maintain effective mist eliminating components. Prior to use, systems should be cleaned to remove bacterial slime and other deposits. An initial slug dose of 3.33 to 5.55 fl. oz. of Polyquat per 1000 gallons of water is recommended. Repeat initial dosage until control is evident. Subsequent slug additions of 2.25 to 5.55 fl. oz. of Polyquat per 1000 gallons of water should be employed each 1 to 5 days, or as needed. The frequency of addition depends upon the relative amount of bleedoff and severity of the bacterial problem. Slug additions may be made to the sump or to the water collection trays of the airwash system.

**Swimming Pools, Heated Swimming Pools, Exterior Whirlpools, Spas and Hot Tubs:**

Polyquat provides optimum control of water when heavy growth of algae is removed by cleaning the pool before using Polyquat.

- For pools having just visible algae growth, add an initial dose of 11 to 17 fl. oz. of Polyquat per 10,000 gallons of water and remove settled algae debris by cleaning.
- For treatment of a freshly cleaned and filled pool, add initially 6 to 11 fl. oz. of Polyquat per 10,000 gallons of water.
- To maintain pools free of visible algae growth, subsequent additions of 2 to 4 fl. oz. of Polyquat per 10,000 gallons of water should be made every 5 to 7 days after the initial treatment.

To obtain optimum control, Polyquat must be uniformly distributed throughout the water in the pool. Polyquat is compatible with those chemicals normally used to treat pools and is effective at both acid and alkaline pH. Polyquat can be used in pools treated with chlorine-based chemicals and may reduce the amount of those chemicals normally required. However, do not mix Polyquat with concentrated dry or liquid chlorine-based products.

**Decorative Fountains:** Polyquat is used to control the growth of algae in decorative fountains that do not contain fish. Heavy growths of algae should be manually cleaned prior to treatment.

- Fountains with just visible algae growth require an initial dose of 1.0 to 2.0 fl. oz. of Polyquat per 1000 gallons of water.
- To treat a freshly cleaned and filled fountain, add 0.5 to 1.5 fl. oz. of Polyquat per 1000 gallons of water.
- Maintenance dosages of 0.2 to 0.5 fl. oz. of Polyquat per 1000 gallons of water should be added every 5 to 7 days as needed.

Additions of Polyquat should be made at a point to ensure uniform distribution. Polyquat may be used in fountains treated with chlorine chemical, but do not mix Polyquat with concentrated or liquid chlorine products.

**Industrial Starch Solutions:** Polyquat will retard microbial growth that causes degradation of cooked starch used in paper manufacture.

- Polyquat is added at a rate of 25 to 250 ppm based on the total weight of the starch and water. The treatment rate necessary to retard spoilage of the starch will vary with the extent of contamination of the make-up water and the length of storage.

**NOTE: Do not use in paper and paperboard that will contact food.**

**Metalworking Fluids:** Polyquat is used to inhibit bacterial degradation of aqueous solutions or emulsions of the cutting fluids or oils employed as lubricants or coolants in the machining and processing of metals. It is recommended for the preservation of water-based synthetic metalworking fluids based on amines, borates, phosphates, and nitrates, and also for the protection of those fluids based on soluble or emulsifying oils modified with nonionic surfactants. It is not recommended, however, for use in insoluble or straight oils or in fluids containing anionic surfactants.

- For preservation of cutting fluids, 0.01 to 0.1% of Polyquat, based on the total weight of the diluted cutting fluid, is recommended.
- In some cases, Polyquat may be added to the concentrated fluids, and the amounts of Polyquat added then should be such that concentrations of 0.01 to 0.1% are obtained when the fluid is diluted with water for use in metalworking operations.

For continued protection against bacterial degradation, treatment of the diluted cutting fluid should be repeated every four weeks. More frequent treatment may be necessary if excessive contamination of a particular cutting fluid system occurs. The latter condition may be indicated by the development of abnormal odors or an unusual appearance of the cutting fluid solution or emulsion and can be determined by bacteriological testing procedures.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Do not stack more than four drums high. Leaking or damaged drums should be placed in overpack drums for disposal. Soils should be absorbed in sawdust or sand and disposed of in a sanitary landfill. Keep container closed when not in use.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**CONTAINER DISPOSAL:** Triple rinse (or equivalent). Then offer for recycling or reconstitution, or puncture and dispose of in a sanitary landfill, by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**CONDITIONS OF SALE – LIMITED WARRANTY AND LIMITATIONS OF LIABILITY AND REMEDIES**

The directions on this label are believed to be reliable and must be followed carefully. Insufficient control of pests and/or injury to the crop to which the product is applied may result from the occurrence of extraordinary or unusual weather conditions, the failure to follow the label directions, or good application practices, all of which are beyond the control of Tessenderlo Kerley, Inc., or seller. In addition, failure to follow label directions may cause injury to crops, animals, man or the environment. Tessenderlo Kerley, Inc. warrants that this product conforms to the chemical description on the label and is reasonably fit for the purpose referred to in the directions for use, subject to the factors noted above which are beyond the control of Tessenderlo Kerley, Inc. Except as warranted by this label, Tessenderlo Kerley, Inc. makes no other warranties or representations of any kind, express or implied, concerning the product, including no implied warranty of merchantability or fitness for any particular purpose. To the extent allowed by applicable law, the exclusive remedy against Tessenderlo Kerley, Inc. for any cause of action relating to the handling or use of this product is a claim of damage, and in no event shall damages or any other recovery of any kind against Tessenderlo Kerley, Inc. exceed the price of the product which causes the alleged loss, damage, injury, or other claim. To the extent allowed by applicable law, Tessenderlo Kerley, Inc. shall not be liable and any and all claims against Tessenderlo Kerley, Inc. are waived, for special, indirect, incidental, or consequential damages or expense of any nature, including, but not limited to, loss of profits or income, whether or not based on the negligence of Tessenderlo Kerley, Inc. breach of warranty, strict liability, in tort, or any other cause of action. Tessenderlo Kerley, Inc. and the seller offer this product, and the buyer and users accept it, subject to the foregoing conditions of sale and limitations of warranty liability and remedies.