05-19-2012

#### UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

SEPA United States Environmental Protection Office of Pesticide Programs

MAY 1 9 2010

Joel S. Schwartz Regulatory Manager OxyChem 520 Monsanto Avenue Sauget, IL 62206

935-41

FILE COPY

Subject: ACL® 60 EUP Chlorinating Granules EPA Reg. No. 935-41 Application Dated: March 15, 2010 Receipt Date: April 20, 2010

Dear Mr. Schwartz:

The following notification submitted in connection with registration under the provisions of PR Notice 98-10, Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA) section 3(c)9 is acceptable.

#### **Proposed Notification:**

Revised Container Disposal section per PR Notice 2007-4

#### **Comments:**

Based on a review of the material submitted, the following comments apply:

- 1. For the 'plastic container with liner' and 'plastic container without liner' sections, you must add the appropriate triple rinse residue removal instructions based on your product's formulation and container type.
- 2. Revise the household container disposal section as follows:

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Then offer for recycling, if available.

Please read instructions on reverse befor mpleting form.	Form App	d. OMB No. 2070-	Print Form
United States Environmental Protect Washington, DC 2	tion Agency	Registration Amendmen X Other	n OPP Identifier Number
Applica	tion for Pesticide - Sect	ion I	
1. Company/Product Number Occidental Chemical Corporation / 935-41	<b>2. EPA Product Mana</b> E. Mitchell	ger	3. Proposed Classification
4. Company/Product (Name) ACL® 60 EUP Chlorinating Granules	<b>PM#</b> 32	PM# L	
5. Name and Address of Applicant (Include ZIP Code) Occidental Chemical Corporation 520 Monsanto Avenue Sauget, IL 62206 Check if this is a new address	(b)(i), my product is to:	s similar or identical	with FIFRA Section 3(c)(3) in composition and labeling
	Section - II		
Amendment - Explain below.  Resubmission in response to Agency letter dated  Notification - Explain below.  Explanation: Use edditional page(s) if necessary. (For sec Notification to change the Pesticide Container Disposal See attached page for certification. Fee determination: Fee Category - Not Applicable. jsschw@solutia.com	Agency lette "Me Too" A Other - Expla-	pplication. ain below.	
	Section - III		
1. Material This Product Will Be Packaged In:         Child-Resistant Packaging         Yes*         No         * Certification must be submitted         3. Location of Net Contents Information		5. Location of Label D	etal astic lass spor ther (Specify)
Label Container		On Label On Labeling	accompanying product
6. Manner in Which Label is Affixed to Product	hograph Other per glued snciled	••••	
	Section - IV		
1. Contact Point (Complete items directly below for identifica			
Name Joel S. Schwartz	Dogulaton/Managar		ephone No. (Include Area Cod 8)482-6447
Certify I certify that the statements I have made on this form a I acknowledge that any knowingly false or misleading a both under applicable law.			Received
2. Signature Joel S. S. hoft	3. Title Regulatory Manager	0 0 0 0 0 0 0 0 0 0	

Yellow - Applicant Copy

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Joel S. Schwartz **Regulatory Manager** ACL<sup>®</sup> Isocvanurates

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Responsible Care Good Chemistry at Work

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March 15, 2010

Document Processing Desk (NOTIF) Office of Pesticide Programs (7504P) United States Environmental Protection Agency Room S-4900, One Potomac Yard 2777 South Crystal Drive Arlington, VA 22202-4501

#### Re: **ACL® 60 EUP Chlorinating Granules** EPA Reg. No. 935-41

Dear Sir:

Please process the enclosed notification for the above referenced product. The purpose of this notification is to add language required by the Pesticide Container Rule under Storage and Disposal per PR Notice 2007-4.

Enclosed you will find:

- Application for Pesticide, EPA Form 8570-1;
- Notification Certification Statement; and
- Proposed label with changes marked.

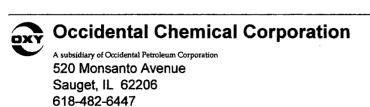
Should you have questions regarding this registration notification application, please give me a call at the number indicated below or you may email me at jsschw@solutia.com.

Sincerely,

god S. Sahaf

Joel S. Schwartz

Enclosures



This application for notification to revise the container disposal section, as referenced above, is acceptable. A copy has been placed in our records for future reference.

Should you have any questions concerning this letter, please contact me at <u>Henson.Wanda@epa.gov</u> or call (703) 308-6345.

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Sincerely,

Wanda Henson

Acting Product Manager (32) Regulatory Management Branch II Antimicrobials Division (7510P)

# **OxyChem**

# ACL<sup>®</sup> 60 EUP CHLORINATING GRANULES

## **ACTIVE INGREDIENT:**

Sodium Dichloro-s-triazinetrione	97 %
OTHER INGREDIENTS	3 %
TOTAL	.100 %

Provides 62% Available Chlorine

# **KEEP OUT OF REACH OF CHILDREN**



# DANGER

If in eyes • • • If swallowed •	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. Call poison control center or doctor immediately for treatment advice.			
If swallowed	Call a poison control center or doctor for treatment advice. Call poison control center or doctor immediately for treatment advice.			
If swallowed •	Call 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 the poison control center or doctor.			
•	Do not give anything by mouth to an unconscious person.			
lf inhaled •	Move person to fresh air.			
•	If person is not breathing, call 911 or an ambulance, then give artificial respiration,			
	preferably by mouth-to-mouth, if possible.			
•	Call a poison control center or doctor for further treatment advice.			
lf on skin or 🛛 🔸	Take off contaminated clothing.			
clothing •	Rinse skin immediately with plenty of water for 15-20 minutes.			
•	Call a poison control center or doctor for treatment advice.			
	HOT LINE NUMBER			
Have the product co	ntainer or label with you when calling a poison control center or doctor, or going for			
	also contact 1-800-733-3665 for 24 hour emergency medical treatment information.			
NOTE TO PHYSICIAN				
]	Probable mucosal damage may contraindicate the use of gastric lavage.			

See side panel for Directions for Use.

EPA Reg. No. EPA Est. No.	935-41 [58401-IL-1] [935-LA-3]	<b>Occidental Chemical Corporation</b> P.O. Box 809050; Dallas, Texas 75380 972-404-3800		
	HMIS Rating System: Health 3	Flammability 0 Reactivity $2$	0000 0 0000 0	
	Net Wt.	_ lbs. / kg.	<b>το τ</b> τ τ τ τ τ τ τ τ τ τ τ τ τ τ τ τ τ τ	
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#### PRECAUTIONARY STATEMENTS

#### HAZARD TO HUMANS AND DOMESTIC ANIMALS

**DANGER. HIGHLY CORROSIVE:** Causes irreversible eye damage and skin burns. Harmful if swallowed. Avoid breathing dust and fumes. Irritating to nose and throat. Do not get in eyes, on skin or clothing. Wear protective eyewear (goggles or safety glasses). Wear protective clothing and rubber gloves when handling this product. Wash thoroughly with soap and water after handling and before eating. Remove contaminated clothing and wash clothing before reuse.

#### **ENVIRONMENTAL HAZARD**

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.

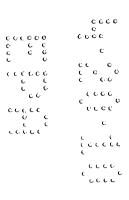
### PHYSICAL OR CHEMICAL HAZARD

Strong oxidizing agent. Contact with water slowly liberates irritating and hazardous chlorine containing gases. Decomposes at temperatures above 464°F with liberation of harmful gases. When ignited, will burn with the evolution of chlorine and equally toxic gases.

Never add water to product. Always add product to large quantities of water. Use clean, dry utensils. Do not add this product to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic material, or other chemicals may start a chemical reaction with generation of heat, liberation of hazardous gases, and possible fire and explosion.

**IN CASE OF FIRE OR SMOKE:** Call the fire department. Do not attempt to extinguish the fire without a self contained breathing apparatus (SCBA). Do not let the fire burn. Flood with copious amounts of water. Do not use ABC or other dry chemical extinguishers since there is the potential for a violent reaction.

IN CASE OF CONTAMINATION OR DECOMPOSITION: Do not reseal container. Follow disposal instructions on label.





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

This product may be used in accordance with the directions for use as a microbiocide/microbiostat, disinfectant, sanitizer, fungicide, algaecide and bacteriostat in the following use sites: aquatic food crop, aquatic non-food industrial, aquatic non-food residential, greenhouse food crop, indoor food, indoor non-food, indoor medical, and indoor residential.

#### **AQUATIC FOOD CROP:**

#### **EMERGENCY DRINKING WATER**

This product may be used to disinfect raw or pre-treated (settled, coagulated and/or filtered) water supplies intended for use as drinking water for humans and domestic animals on an emergency basis as defined in 40 CFR, Part 165-179.

The source of the water to be treated may be a river, lake, well, cistern or similar system. To obtain the desired disinfection results, the water to be treated should be clear and free of dirt and organic debris. If the source of the water is cloudy and contains dirt and organic debris, the water should be held in holding tanks or ponds, treated with coagulating agents and filtered to remove the dirt and organic debris.

**DRINKING WATER** - Dissolve 0.1 ounce of this product in 50 gallons of water (150 milligrams per 10 liters) to obtain a concentration of 10 ppm (mg/L) of available chlorine. Let the water stand seven to fifteen minutes before using. A residual of 0.2 ppm (mg/L) of available chlorine, as measured by a reliable test kit, should be maintained in the water to insure disinfection.

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# AQUATIC NON-FOOD IN JUSTRIAL:

### **RECIRCULATING WATER SYSTEMS**

This product is intended for the control of bacteria, fungi and algae in the following aquatic sites: Air Washer Water Systems, Commercial/Industrial Water Cooling Systems, Evaporative Condenser Water Systems, Ornamental Ponds and Aquaria, Heat Exchange Water Systems, Lakes/Ponds/Reservoirs (Without Human or Wildlife Use), Industrial Scrubbing Systems, Industrial Auxiliary Water Systems, Industrial Process Water.

This product may be added to the system by direct placement into the water at a point where the product will be uniformly mixed with water. The frequency of feeding and duration of the treatment will depend on the severity of the contamination. Badly fouled systems must be cleaned before treatment begins.

#### **Intermittent or slug method**

**Initial Dose:** When the system is noticeably fouled, add this product at the rate of 0.15 to 0.75 pounds per 1000 gallons (18 to 90 grams per 1000 liters) in the system to achieve 0.5-10 ppm (mg/L) available chlorine, as measured by a suitable test kit. Repeat dosage until residual is achieved.

Subsequent Dose: When microbial control is evident, add this product at the rate of 0.03 to 0.15 pounds per 1000 gallons (3.6 to 18 grams per 1000 liters) in the system to achieve 0.5-1 ppm (mg/L) available chlorine, as measured by a suitable test kit. Repeat periodically as needed to maintain control.

#### Continuous feed method

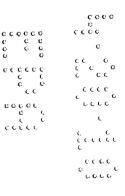
**Initial Dose:** When the system is noticeably fouled, add this product at the rate of 0.15 to 0.75 pounds per 1000 gallons (18 to 90 grams per 1000 liters) in the system to achieve 0.5-10 ppm (mg/L) available chlorine, as measured by a suitable test kit. Repeat dosage until residual is achieved.

Subsequent Dose: When microbial control is evident, add this product at the rate of 0.03 to 0.15 pounds per day per 1000 gallons (3.6 to 18 grams per day per 1000 liters) in the system to maintain 0.5-1 ppm (mg/L) available chlorine, as measured by a suitable test kit.

#### SEWAGE WASTE WATER SYSTEMS

This product is intended for the control of bacteria, fungi and algae in sewage waste water systems. This product provides rapid disinfection of primary, secondary and tertiary wastewater treatment systems.

**Dose Rate:** Add this product at the rate of 0.03 to 0.75 pounds per 1000 gallons (3.6 to 90 grams per 1000 liters) in the system to achieve 0.2-3 ppm (mg/L) available chlorine, as measured by a suitable test kit, at the injection point in the disinfection contact chamber. Adjust the dosage to achieve disinfection and minimize the halogen concentration at the exit of the contact chamber.



# AQUATIC NON-FOOD RESIDENTIAL:

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#### SWIMMING POOL WATER SYSTEMS

This product is intended for use in controlling bacteria and algae in swimming pools. This product should be added directly to the surface of circulating water according to the directions.

Re-entry into treated swimming pools is prohibited above levels of 3 ppm chlorine.

<u>Start up</u> - Before using this product, make sure that the filtration system is clean and operating properly. Adjust the pH of the water to the range of 7.2-7.6 using suitable products and a reliable test kit. Adjust the alkalinity of the water to a minimum of 125 ppm (mg/L), based on the test kit reading.

Add a sufficient amount of this product directly to the surface of circulating water to raise the free available chlorine level in the water to 5-6 ppm (mg/L), based on reading from a suitable test kit. The addition of 10 ounces of this product per 10,000 gallons of water (7.5 grams per 1,000 liters) will provide approximately 5 ppm (mg/L) of available chlorine.

<u>Shock treatment</u> - The pool water should be superchlorinated or shocked every seven days or whenever the *combined* chlorine level is above 0.5 ppm (mg/L). *Combined* chlorine is the difference between *total* and *free* chlorine, as measured by a suitable test kit.

Add a sufficient amount of this product directly to the surface of circulating water to raise the available chlorine level to 5-6 ppm (mg/L), based on test kit readings. The addition of 10 ounces of this product per 10,000 gallons of water (7.5 grams per 1,000 liters) will provide approximately 5 ppm (mg/L) of available chlorine. If the combined chlorine reading is not below 0.5 ppm (mg/L) and the water has not been restored to its normal clarity, repeat the shock treatment described above.

Do not enter water until free available chlorine reading is below 3 ppm (mg/L), combined chlorine is below 0.5 ppm (mg/L) and the water is restored to its normal clarity.

<u>Maintenance treatment</u> - Add this product daily or as needed to maintain the free available chlorine level in the water at 1-3 ppm (mg/L) as indicated by a reliable test kit. The addition of 2 ounces of this product per 10,000 gallons of water (1.5 grams per 1,000 liters) will provide approximately 1 ppm (mg/L) of available chlorine. Weather and usage effect sanitizer levels. In addition, some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of this product. Maintain the pH at 7.2-7.6 and the alkalinity at a minimum of 125 ppm (mg/L).

When the total dissolved solid (TDS) reaches 3000 ppm (mg/L) or whenever the water becomes difficult to manage, the water should be drained and fresh water added to the pool.

<u>Winterizing</u> - Thoroughly clean and vacuum the pool. While the water is still clear and clean, apply 16 ounces of this product for each 10,000 gallons of water (12 grams per 1,000 liters), while the filtration system is running. This will increase the available chlorine by approximately 8 ppm (mg/L). Cover pool, prepare heater, filter and heater components for winter by following manufacturers' instructions.

# AQUATIC NON-FOOD RESIDENTIAL:

#### SPAS, HOT-TUBS, IMMERSION AND HYDROTHERAPY TANKS

This product is intended for use in controlling bacteria in spas, hot tubs, Hubbard, immersion and hydrotherapy tanks. This product is also highly effective in controlling and destroying algae in outdoor spas and hot tubs. This product should be added directly to the surface of circulating water according to the directions.

#### SPA AND HOT TUB DISINFECTION

<u>Start up</u> - Before using this product, make sure that the filtration system is clean and operating properly. Adjust the pH of the water to the range of 7.2-7.6 and the alkalinity of the water to a minimum of 125 ppm (mg/L), using suitable products and reliable test kits. For bather safety, it is not recommended that water temperatures exceed  $104^{\circ}F$  ( $40^{\circ}C$ ).

Add a sufficient amount of this product directly to the surface of circulating water to raise the free chlorine level in the water to 5-6 ppm (mg/L), based on suitable test kit readings. The addition of one ounce of this product per 1,000 gallons (0.75 grams per 100 liters) of water will increase the available chlorine by 5 ppm (mg/L).

<u>Shock treatment</u> - After each use, the water should be superchlorinated or shocked. Add a sufficient amount of this product directly to the surface of circulating water to raise the available chlorine level to 5-6 ppm (mg/L), based on test kit readings. The addition of one ounce of this product per 1,000 gallons (0.75 grams per 100 liters) of water will increase the available chlorine by 5 ppm (mg/L). If the combined chlorine reading is not below 0.5 ppm (mg/L) and the water has not been restored to its normal clarity, repeat the shock treatment described above. *Combined*\_chlorine is the difference between *total* and *free* chlorine, as measured by a suitable test kit

<u>Maintenance treatment</u> - Add this product daily or as needed to maintain the free available chlorine level in the water at 3 - 5 ppm (mg/L) as indicated by a suitable test kit. The addition of 0.5 ounce of this product per 1,000 gallons of water (0.38 grams per 100 liters) will increase the available chlorine by 2.5 ppm (mg/L). Weather and usage effect sanitizer levels. In addition, some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of this product. Maintain the pH at 7.2-7.6 and the alkalinity at a minimum of 125 ppm (mg/L).

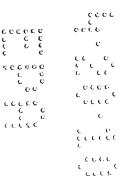
When the total dissolved solid (TDS) reaches 3000 ppm (mg/L) or whenever the water becomes difficult to manage, the water should be drained and the spa/hot tub thoroughly cleaned before adding fresh water.

#### **HUBBARD AND IMMERSION TANKS**

Add 5 oz. of this product for each 1,000 gallons (3.75 grams per 100 liters) of water to obtain an available chlorine level of 25 ppm (mg/L), as measured by a suitable test kit. Adjust and maintain the pH at 7.2-7.6. After each use, drain the tank. Add 1 oz. to a bucket of water and circulate this solution through the agitator of the tank for 15 minutes and then rinse out the solution. Clean the tank thoroughly and dry with clean cloths.

#### **HYDROTHERAPY TANKS**

Add this product daily or as needed to maintain the free available chlorine in the water at 1 - 3 ppm (mg/L) as indicated by a suitable test kit. The addition of 0.5 ounce of this product per 1,000 gallons (0.38 grams per 100 liters) of water will increase the available chlorine by 2.5 ppm (mg/L). Adjust and maintain the pH at 7.2-7.6 and the alkalinity at a minimum of 75 ppm (mg/L). Operate the filtration system continuously. Drain the tank weekly and clean thoroughly before refilling.



#### 

This product is intended for use in controlling bacteria and algae in residential ornamental ponds and similar aquaria. This product should be added directly to the surface of circulating water according to the directions. **Do not** apply to aquaria containing fish or other living aquatic organisms.

<u>Treatment</u> - Before using this product, make sure that the system is clean and the circulation system is operating properly. **Do not** apply to aquaria containing fish or other living aquatic organisms. Remove the fish and other aquatic species from the pond or aquaria before treatment.

Add a sufficient amount of this product directly to the surface of circulating water to raise the available chlorine level to 10-20 ppm (mg/L), based on suitable test kit readings. The addition of one ounce of this product will provide about 5 ppm (mg/L) of available chlorine to 1,000 gallons of water (0.75 grams per 100 liters). Repeat treatment as required to restore the water to its normal clarity or until the algae growth is destroyed.

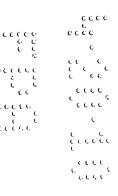
Low levels of chlorine can be highly toxic to certain fish and other aquatic species. Before returning the aquatic species to the aquaria, the remaining chlorine should be destroyed by adding 0.33 ounces of sodium sulfite per every ppm of available chlorine per 1,000 gallons of water (0.25 grams per 100 liters). Do not return the aquatic species to the water until the available chlorine level is zero as measured by a reliable test kit.

<u>Maintenance treatment</u> - In ponds where no fish or aquatic species are present, this product can be added daily or as needed to maintain the available chlorine in the water at 2-5 ppm (mg/L) as indicated by a reliable test kit. The addition of 0.5 ounce of this product will provide about 2.5 ppm (mg/L) of available chlorine to 1,000 gallons of water (0.38 grams per 100 liters). Weather and organic debris will affect sanitizer levels and usage.

#### DOMESTIC/COMMERCIAL NON-POTABLE WATER (WATERBED WATER)

This product is intended for use in controlling bacteria in waterbeds.

**Initial Filling** - Add one-third (1/3) ounce of this product for each 100 gallons of the waterbed capacity (24 grams per 100 liters). This will increase the available chlorine level to approximately 16 ppm (mg/L). Add the product directly to the bladder just prior to filling.



#### **INDOOR FOOD:**

This product may be used on food contact surfaces in accordance with 21CFR 178.1010 of the Federal Food, Drug and Cosmetic Act.

**SOLUTION PREPARATION -** Prepare a 100 ppm (mg/L) sanitizing solution by thoroughly mixing 0.2 oz. of this product with 10 gallons of water (0.15 gram per liter). Solutions containing an initial concentration of 100 ppm (mg/L) available chlorine must be tested with a suitable chlorine test kit and adjusted periodically to insure that the available chlorine does not drop below 50 ppm (mg/L). Should the available chlorine level drop below 50 ppm (mg/L), either discard the solution or add 0.1 ounce of this product per 10 gallons of water (75 milligrams per liter) to increase the available chlorine level 50 ppm (mg/L) and maintain the 100 ppm (mg/L) solution strength.

#### SANITIZATION OF NON-POROUS FOOD CONTACT SURFACES

This product is recommended for use in poultry houses, egg handling equipment, dairy farm milk handling facilities/equipment, dairy farm milking equipment, household/domestic dwellings indoor food handling areas, food processing plant premises and equipment (food and non-food contact), dairies/cheese processing plant premises and equipment (food and non-food contact), meat processing plant premises and equipment (food and non-food contact), meat processing plant premises and equipment (food and non-food contact), meat processing plant premises and equipment (food and non-food contact), poultry processing plant premises and equipment (food and non-food contact), the equipment (food and non-food contact), fish/seafood processing plant premises and equipment (food and non-food contact), eating establishments, eating establishments equipment/utensils (food contact), milk shake machines, soft serve ice cream machines.

**RINSE OR SPRAY METHOD** - Clean equipment surfaces in the normal manner and rinse with potable water. It may be necessary to remove gross filth and heavy soil from surfaces by a pre-scrape, pre-flush, and where necessary, a pre-soak treatment. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for 2 to 5 minutes. Do not rinse equipment with water after treatment.

The same solution may be used in the feed tanks of spray type machines providing at least one minute contact time to sanitize equipment.

**IMMERSION METHOD** - Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for 2 to 5 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment.

#### EGG WASHING

This product is recommended for use in commercial egg washing treatments and hatching egg washing treatments.

The eggs should be washed in a continuous operation and shall be completed as rapidly as possible. The eggs shall not be allowed to stand or soak in water. Immersion-type washers shall not be used. After washing, the eggs shall be spray rinsed with the sanitizing solution. At intervals during use, this product should be added to the circulating spray rinse solution to maintain 100 ppm (mg/L) available chlorine.

#### INDOOR NON-FOOD:

#### SANITIZATION OF NON-POROUS FOOD CONTACT SURFACES

This product is recommended for use in egg plants/hatcheries/brooder rooms, shoe baths (hatching), mushroom houses-empty premises, eating establishments food handling and serving areas (non-food contact), commercial/institutional/industrial premises/equipment (indoor), laundry (commercial), refuse/solid waste containers (garbage cans).

**SOLUTION PREPARATION -** Prepare a 100 ppm (mg/L) sanitizing solution by thoroughly mixing 0.2 oz. of this product with 10 gallons of water (0.15 gram per liter). Solutions containing an initial concentration of 100 ppm (mg/L) available chlorine must be tested with a suitable chlorine test kit and adjusted periodically to insure that the available chlorine does not drop below 50 ppm (mg/L). Should the available chlorine level drop below 50 ppm (mg/L), either discard the solution or add 0.1 ounce of this product per 10 gallons of water (75 milligrams per liter) to increase the available chlorine level 50 ppm (mg/L) and maintain the 100 ppm (mg/L) solution strength.

**RINSE OR SPRAY METHOD** - Clean equipment surfaces in the normal manner and rinse with potable water. It may be necessary to remove gross filth and heavy soil from surfaces by a pre-scrape, pre-flush, and where necessary, a pre-soak treatment. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for 2 to 5 minutes. Do not rinse equipment with water after treatment.

The same solution may be used in the feed tanks of spray type machines providing at least one minute contact time to sanitize equipment.

**IMMERSION METHOD** - Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment and do not soak equipment overnight.

#### FABRIC AND DIAPER SANITIZER

This product is recommended for stain removal and reduction of ammonia causing bacteria in institutional and commercial laundering of fabrics and diapers.

Wet fabric or diapers should be spin-dried before the sanitizer is applied. One-third (1/3) ounce of this product should be added for each 16 gallon wash load (9 grams per 60 liter wash load). The above application gives approximately 100 ppm (mg/L) available chlorine in the pre-wash cycle. Run this solution in the pre-wash, followed by the regular wash cycle with a good detergent.

## **INDOOR NON-FOOD:**

#### PASTEURIZER/WARMER/CANNERY COOLING WATER SYSTEMS

This product is intended for the control of bacteria, fungi and algae in pasteurizer/warmer/cannery cooling water systems.

This product may be added to the system by direct placement into the water at a point where the product will be uniformly mixed with water. The frequency of feeding and duration of the treatment will depend on the severity of the contamination. Badly fouled systems must be cleaned before treatment begins.

#### **Intermittent or slug method**

**Initial Dose:** When the system is noticeably fouled, add this product at the rate of 0.15 to 0.75 pounds per 1000 gallons (18 to 90 grams per 1000 liters) in the system to achieve 0.5-10 ppm (mg/L) available chlorine, as measured by a suitable test kit. Repeat dosage until residual is achieved.

Subsequent Dose: When microbial control is evident, add this product at the rate of 0.03 to 0.15 pounds per 1000 gallons (3.6 to 18 grams per 1000 liters) in the system to achieve 0.5-1 ppm (mg/L) available chlorine, as measured by a suitable test kit. Repeat periodically as needed to maintain control.

#### Continuous feed method

**Initial Dose:** When the system is noticeably fouled, add this product at the rate of 0.15 to 0.75 pounds per 1000 gallons (18 to 90 grams per 1000 liters) in the system to achieve 0.5-10 ppm (mg/L) available chlorine, as measured by a suitable test kit. Repeat dosage until residual is achieved.

**Subsequent Dose:** When microbial control is evident, add this product at the rate of 0.03 to 0.15 pounds per day per 1000 gallons (3.6 to 18 grams per day per 1000 liters) in the system to maintain 0.5-1 ppm (mg/L) available chlorine, as measured by a suitable test kit.

## **INDOOR MEDICAL:**

This product is recommended for use as a sanitizer on hospital surgical fluid wastes.

**SOLUTION PREPARATION -** Prepare a 100 ppm (mg/L) sanitizing solution by thoroughly mixing 0.2 oz. of this product with 10 gallons of water (0.15 gram per liter). Solutions containing an initial concentration of 100 ppm (mg/L) available chlorine must be tested with a suitable chlorine test kit and adjusted periodically to insure that the available chlorine does not drop below 50 ppm (mg/L). Should the available chlorine level drop below 50 ppm (mg/L), either discard the solution or add 0.1 ounce of this product per 10 gallons of water (75 milligrams per liter) to increase the available chlorine level 50 ppm (mg/L) and maintain the 100 ppm (mg/L) solution strength.

**RINSE OR SPRAY METHOD** - Clean equipment surfaces in the normal manner and rinse with potable water. It may be necessary to remove gross filth and heavy soil from surfaces by a pre-scrape, pre-flush, and where necessary, a pre-soak treatment. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

The same solution may be used in the feed tanks of spray type machines providing at least one minute contact time to sanitize equipment.

This product is not to be used as a terminal sterilant/high level disinfectant on any surface or instrument that (1) is introduced directly into the human body, either into or in contact with the bloodstream or normally sterile areas of the body, or (2) contacts intact mucous membranes but which does not ordinarily penetrate the blood barrier or otherwise enter normally sterile areas of the body. This product may be used to pre-clean or decontaminate critical or semi-critical medical devices prior to sterilization or high level disinfection.

# INDOOR RESIDENTIAL

#### HARD SURFACE SANITIZATION

This product is recommended for use as a hard surface sanitizer on residential floors and laundry (household and coin operated).

**SOLUTION PREPARATION -** Prepare a 100 ppm (mg/L) sanitizing solution by thoroughly mixing 0.2 oz. of this product with 10 gallons of water (0.15 gram per liter). Solutions containing an initial concentration of 100 ppm (mg/L) available chlorine must be tested with a suitable chlorine test kit and adjusted periodically to insure that the available chlorine does not drop below 50 ppm (mg/L). Should the available chlorine level drop below 50 ppm (mg/L), either discard the solution or add 0.1 ounce of this product per 10 gallons of water (75 milligrams per liter) to increase the available chlorine level 50 ppm (mg/L) and maintain the 100 ppm (mg/L) solution strength.

**RINSE OR SPRAY METHOD** - Clean equipment surfaces in the normal manner and rinse with potable water. It may be necessary to remove gross filth and heavy soil from surfaces by a pre-scrape, pre-flush, and where necessary, a pre-soak treatment. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

The same solution may be used in the feed tanks of spray type machines providing at least one minute contact time to sanitize equipment.

**IMMERSION METHOD** – Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment and do not soak equipment overnight.

# GREENHOUSE FOOD (\_\_\_\_)P

This product is recommended for use in greenhouses and/or mushroom houses for destroying bacteria on the premises and equipment

**SOLUTION PREPARATION -** Prepare a 100 ppm (mg/L) sanitizing solution by thoroughly mixing 0.2 oz. of this product with 10 gallons of water (0.15 gram per liter). Solutions containing an initial concentration of 100 ppm (mg/L) available chlorine must be tested with a suitable chlorine test kit and adjusted periodically to insure that the available chlorine does not drop below 50 ppm (mg/L). Should the available chlorine level drop below 50 ppm (mg/L), either discard the solution or add 0.1 ounce of this product per 10 gallons of water (75 milligrams per liter) to increase the available chlorine level 50 ppm (mg/L) and maintain the 100 ppm (mg/L) solution strength.

**RINSE OR SPRAY METHOD** - Clean equipment surfaces in the normal manner and rinse with potable water. It may be necessary to remove gross filth and heavy soil from surfaces by a pre-scrape, pre-flush, and where necessary, a pre-soak treatment. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

The same solution may be used in the feed tanks of spray type machines providing at least one minute contact time to sanitize equipment.

**IMMERSION METHOD** - Clean equipment in the normal manner. Prior to use, immerse equipment in the sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse equipment with water after treatment and do not soak equipment overnight.

This product may be used on food contact surfaces in accordance with 21CFR 178.1010 of the Federal Food, Drug and Cosmetic Act.

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#### **INDOOR FOOD:**

### DISINFECTION OF DRINKING WATER (EMERGENCY/PUBLIC/INDIVIDUAL SYSTEMS)

**PUBLIC SYSTEMS:** Feed 1 ounce of this product per 6000 gallons of water until a free available chlorine residual of at least 0.2 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.

**INDIVIDUAL SYSTEMS: DUG WELLS** - Upon completion of the casing (lining) wash the interior of the casing (lining) with a 100 ppm available chlorine solution using a stiff brush. This solution can be made by dissolving 1 ounce of this product into 40 gallons of water. After covering the well, pour the disinfecting solution into the well through both the pipe sleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the disinfecting solution. Start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Contact your local Health Department for further details.

**INDIVIDUAL WATER SYSTEMS: DRILLED, DRIVEN & BORED WELLS** - Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine disinfecting solution into the well. This solution can be made by dissolving 1 ounce of this product into 40 gallons of water. Add 5 to 10 gallons of clean, chlorinated water to the well in order to force the disinfectant into the rock formation. Wash the exterior of pump cylinder with the disinfectant. Drop pipeline into well, start pump and pump water until strong odor of chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces of chlorine have been removed from the water. Deep wells with high water levels may necessitate the use of special methods for introduction of the disinfectant into the well. Consult your local Health Department for further details.

**INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS -** Artesian wells generally do not require disinfection. If analyses indicate persistent contamination the well should be disinfected. Consult your local Health Department for further details

#### **EMERGENCY DISINFECTION:**

This product is recommended for disinfecting raw or pre-treated (settled, coagulated and/or filtered) water supplies intended for use as drinking water for humans and domestic animals.

The source of the water to be treated may be a river, lake, well, cistern or similar system. To obtain the desired disinfection results, the water to be treated should be clear and free of dirt and organic debris. If the source of the water is cloudy and contains dirt and organic debris, the water should be held in holding tanks, treated with coagulating agents and filtered to remove the dirt and organic debris.

Dissolve 0.1 ounce of this product in 40 gallons of water (160 milligrams per 10 liters) to obtain a concentration of 10 ppm (mg/L) of available chlorine. Let the water stand for one hour before using. A residual of 1 ppm (mg/L) of available chlorine, as measured by a reliable test kit, should be maintained in the water to insure disinfection.

Preparation of Stock Solution - Dissolve one heaping teaspoon of this product (approximately 10 grams or 1/3 ounce) into 1 liter of water. This mixture will produce a 0.6% stock chlorine solution (6,000 mg/L). Add 20 drops of this stock solution for each liter of water to be treated. The stock solution should be prepared fresh weekly.

# PUBLIC WATER SYSTE

**RESERVOIRS:** ALGAE CONTROL – Continuous chlorination is the most effective method for destroying algae; however, slug treatment can also be effective. Suitable chlorine feeding points should be selected on each stream at least 50 yards upstream from the points of entry into the reservoir. Add this product at the following rates:

**Initial Dose:** When the system is noticeably fouled, add this product at the rate of 1.5 to 7.5 ounces per 10,000 gallons to achieve 0.5-1.5 ppm (mg/L) available chlorine, as measured by a suitable test kit. Repeat dosage until residual is achieved.

Subsequent Dose: When control is evident, add this product at the rate of 0.5 to 2.3 ounces per 10,000 gallons to maintain 0.2-0.5 ppm (mg/L) available chlorine, as measured by a suitable test kit.

**MAINS** - Thoroughly flush section to be disinfected by discharging from hydrants. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a chlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

**NEW TANKS, BASINS, ETC.** - Remove all physical soil from surfaces. Place 8 ounces of this product for each 10 cubic feet of moving capacity (500 ppm available chlorine.) Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to service.

**NEW FILTER SAND** - Apply 16 ounces of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in disinfecting the new sand.

**NEW WELLS** - Flush the casing with a 50 ppm available chlorine solution of water containing 1.2 ounces of this product for each 100 gallons of water. The solution should be pumped or fed by gravity into the well after thorough mixing with agitation. After 24 hours flush well until all traces of chlorine have been removed from the water. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary. Contact your local Health Department for further details.

**EXISTING EQUIPMENT** - Remove equipment from service, thoroughly clean surfaces of all physical soil. Disinfect by placing 8 ounces of this product for each 10 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and let stand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces may be sprayed with a solution containing 1.2 ounces of this product for each 5 gallons of water (approximately 1000 ppm available chlorine). After drying, flush with water and return to service.

# EMERGENCY DISINFE ION AFTER FLOODS:

**WELLS** - Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 1.2 ounces of this product with 10 gallons of water. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorinating solution to the backwash to produce a 10 ppm available chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. After 24 hours flush well until all traces of chlorine have been removed from the water. It may then be pumped until a representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary. Retreat well if water samples are biologically unacceptable. Contact your local Health Department for further details.

**RESERVOIRS** - In case of contamination by overflowing streams, establish chlorinating stations upstream of the reservoir. Chlorinate the inlet water until the entire reservoir obtains a 0.2 ppm available chlorine residual, as determined by a suitable chlorine test kit. In case of contamination from surface drainage, apply sufficient product directly to the reservoir to obtain a 0.2 ppm available chlorine residual in all parts of the reservoir.

**BASINS, TANKS, FLUMES, ETC.** - Thoroughly clean all equipment, then apply 8 ounces of product per 10 cu. ft. of water to obtain 500 ppm available chlorine, as determined by a suitable test kit. After 24 hours drain, flush, and return to service. If the previous method is not suitable, spray or flush the equipment with a solution containing 1.2 ounces of this product for each 5 gallons of water (1000 ppm available chlorine). Allow to stand for 2 to 4 hours, flush and return to service.

**FILTERS** - When the sand filter needs replacement, apply 16 ounces of this product for each 150 to 200 cubic feet of sand. When the filter is severely contaminated, additional product should be distributed over the surface at the rate of 16 ounces per 20 sq. ft. Water should stand at a depth of 1 foot above the surface of the filter bed for 4 to 24 hours. When filter beds can be back-washed of mud and silt, apply 16 ounces of this product per each 50 sq. ft., allowing the water to stand at a depth of 1 foot above the filter sand. After 30 minutes, drain water to the level of the filter. After 4 to 6 hours drain, and proceed with normal back-washing.

**DISTRIBUTION SYSTEM -** Flush repaired or replaced section with water. Establish a chlorinating station and apply sufficient product until a consistent available chlorine residual of at least 10 ppm (as measured by a chlorine test kit) remains after a 24 hour retention time.

#### **EMERGENCY DISINFECTION AFTER FIRES:**

**CROSS CONNECTIONS OR EMERGENCY CONNECTIONS** - Set up a chlorine feed system near the intake of the untreated water supply. Add 1.3 ounces of this product per 1,000 gallons of water until a chlorine residual of at least 0.2 ppm (as measured by a chlorine test kit) at the point where the untreated supply enters the regular distribution system.

#### **EMERGENCY DISINFECTION AFTER DROUGHT:**

**SUPPLEMENTARY WATER SUPPLIES** – A chlorine feed system should be set up on the supplementary water line. This product should be added at 0.7 ounces per 1,000 gallons until a minimum chlorine residual of 0.2 ppm (as measured by a chlorine test kit) is achieved. The water should be held for 20 minute before use.

WATER SHIPPED IN BY TANKS, TANK CARS, ETC. - Thoroughly clean all containers and equipment. Spray a 500 ppm available chlorine solution and rinse with potable water after 5 minutes. This solution is made by mixing 0.6 ounces of this product for each 5 gallons of water. During the filling of the containers, dose with sufficient amounts of this product to provide at least a 0.2 ppm chlorine residual, as measured by a chlorine test kit.

#### **EMERGENCY DISINFECTION AFTER MAIN BREAKS:**

**MAINS** - Before assembly of the repaired section, flush out mud and soil. Permit a water flow of at least 2.5 feet per minute to continue under pressure while injecting this product by means of a chlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

## STORAGE AND DISPOSAL

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

**STORAGE:** Keep material dry and in a dry area. Store in original container where temperatures do not exceed 125°F (52°C) for 24 hours. Keep container tightly closed.

**PESTICIDE DISPOSAL:** Pesticide wastes are toxic. 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. The preferred disposal methods are incineration or chemical treatment in accordance with Federal, State and Local regulations.

Do not put product, spilled product, or filled or partially filled containers into the trash or waste compactor. Contact with incompatible materials could cause a reaction and fire. DO NOT transport wet or damp material.

{Text for bulk bags}

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or reconditioning if appropriate or, dispose of empty bag in a sanitary landfill or by incineration.

{Text for bulk bin}

**CONTAINER DISPOSAL:** Refillable container. Refill this container with pesticide only. Do not reuse this container for any other purpose.

Pressure rinsing the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal pressure rinse as follows: Empty the remaining contents into application equipment or mix tank. Hold container upside down over application equipment or mix tank or collect rinsate for later use or disposal. Insert pressure rinsing nozzle in the top of the container, rinse at 40 PSI for at least 30 seconds. Drain for 10 seconds after the flow begins to drop. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

{Text for fiber drum with liner}

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling if available or dispose of liner in a sanitary landfill or by incineration. If drum is contaminated and cannot be reused, dispose of it in the same manner required for its liner.

{Text for plastic container with liner}

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Completely empty liner by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then offer for recycling, if available, or dispose of liner in a sanitary landfill or by incineration. For outer container triple rinse container (or equivalent) promptly after emptying. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration.

{Text for plastic container without liner}

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration.

{Text for household or residential use products}

**CONTAINER DISPOSAL:** Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer for recycling, if available or puncture and dispose of in a sanitary landfill, or by incineration.