

1258-905

6/20/2012

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

June 20, 2012

Joanna Holcombe  
Senior Commercial Regulatory Services Associate  
Arch Chemicals, Inc  
5660 New Northside Drive, Suite 1100  
Atlanta, GA 30328

Subject PACE Concentrated Pool Chlorinating Tablets  
EPA Registration Number 1258-905  
Application Date May 31, 2012  
EPA Receipt Date June 1, 2012

Dear Ms Holcombe

This acknowledges receipt of the above notification application, submitted under the provision of PR Notice 98-10, FIFRA 3(c)9

Proposed Notifications

- Label revision to move the First Aid and Precautionary Statements to the [left][right][back][side] panel, add note to reviewer,
- Add optional Spanish statement/English translation to the direction for use statement

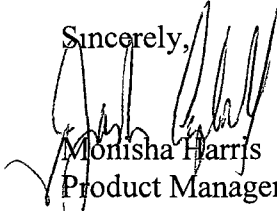
General Comments

Based on a review of the material submitted, the following comment applies

The notification application is acceptable. A copy of the accepted notification has been inserted in your file for future reference.

Should you have any questions or comments concerning this letter, please contact Adam Heyward via email at [heyward\\_adam@epa.gov](mailto:heyward_adam@epa.gov) or by telephone at (703) 347-0274 during the hours of 6 00 am to 2 30 pm EST

Sincerely,



Monisha Harris

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

2012

 <b>EPA</b> Environmental Protection Agency Washington DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
	United States	

Application for Pesticide - Section I

1 Company/Product Number <b>1258-905</b>	2 EPA Product Manager <b>Monisha Harris</b>	3 Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4 Company/Product (Name) <b>PACE Concentrated Pool Chlorinating Tablets</b>	PM# <b>32</b>	
5 Name and Address of Applicant (Include ZIP Code) Arch Chemicals Inc 5660 New Northside Drive NW Suite 1100 Atlanta GA 30328  <input type="checkbox"/> Check if this is a new address	6 Expedited Review In accordance with FIFRA Section 3(c)(3)(b)(I) my product is similar or identical in composition and labeling to  EPA Reg No Product Name	

Section - II

<input type="checkbox"/> Amendment Explain below	<input type="checkbox"/> Final printed labels in response to Agency letter dated _____
<input type="checkbox"/> Resubmission in response to Agency letter dated _____	<input type="checkbox"/> Me Too Application
<input checked="" type="checkbox"/> Notification Explain below	<input type="checkbox"/> Other Explain below

Explanation Use additional page(s) if necessary (For Section I and Section II)

**\*Not Subject to PRIA\***

**Label Notification to move the First Aid and Precautionary Statements, etc See cover letter for details**

This notification is consistent with the provisions of PR-Notice 98-10 and EPA regulations at 40 CFR 152.46 and no other changes have been made to the labeling or the confidential statement of formula of this product I understand that it is a violation of 18 U S C Sec 1001 to willfully make any false statement to EPA I further understand that if this notification is not consistent with the terms of PR Notice 98-10 and 40 CFR 152.46 this product may be in violation of FIFRA and I may be subject to enforcement action and penalties under sections 12 and 14 of FIFRA

Signature Joanna Holcombe Date 5-31-12

Section - III

1 Material This Product Will Be Packaged In				2 Type of Container	
Child Resistant Packaging <input checked="" type="checkbox"/> Yes* <input type="checkbox"/> No  <i>*Certification must be submitted</i>	Unit Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If Yes Unit Packaging wgt	No per container	Water Soluble Packaging <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No  If Yes Package wgt	No per container	<input type="checkbox"/> Metal <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Glass <input type="checkbox"/> Paper <input type="checkbox"/> Other (Specify)
3 Location of Net Contents Information <input type="checkbox"/> Label <input checked="" type="checkbox"/> Container		4 Size(s) Retail Container  Various		5 Location of Label Directions <input checked="" type="checkbox"/> On Label <input checked="" type="checkbox"/> On labeling accompanying product	
6 Manner in Which Label is Affixed to Product <input type="checkbox"/> Lithograph <input type="checkbox"/> Other <input checked="" type="checkbox"/> Paper glued <input type="checkbox"/> Stenciled					

Section - IV

1 Contact Point (Complete items directly below for identification of individual to be contacted if necessary to process this application)		
Name <b>Joanna Holcombe</b>	Title <b>Sr Commercial Regulatory Services Associate</b>	Telephone No (Include Area Code) <b>678-627 2336</b>
Certification I certify that the statements I have made on this form and all attachments thereto are true accurate and complete I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law		6 Date of Application Received  (Stamped)
2 Signature <u>Joanna Holcombe</u>	3 Title <b>Sr Commercial Regulatory Services Associate</b>	
4 Typed Name <b>Joanna Holcombe</b>	5 Date <u>5-31-12</u>	

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Via FedEx

Arch Chemicals Inc  
5660 New Northside Drive NW Suite 1100  
Atlanta GA 30328 USA

Ms Monisha Harris PM-32  
Document Processing Desk (NOTIF)  
Office of Pesticide Programs (7504P)  
US Environmental Protection Agency  
Room S-4900 One Potomac Yard  
2227 S Crystal Drive  
Arlington VA 22202

Joanna Holcombe  
Lonza Microbial Control  
Commercial Regulatory Services

Tel 678 627 2336  
Fax 678 627 2081  
joanna.holcombe@lonza.com

May 31 2012

**SUBJECT PACE Concentrated Pool Chlorinating Tablets, EPA Reg No 1258-905  
Label Notification**

Dear Ms Harris

Arch Chemicals Inc is now a part of Lonza On behalf of Arch Chemicals I am submitting an application to make the following changes to the abovementioned product label

Page 1	<ul style="list-style-type: none"> <li>• Add the words Note to reviewer to the box explaining the use of brackets and braces</li> <li>• Add optional Spanish signal word</li> <li>• Move First Aid and Precautionary Statements to page 2 and add a Note to reviewer and the following referral statement <i>See [left] [right] [back] [side] panel for Precautionary and First Aid Statements</i> Other EPA registered swimming pool products such as 5185-144 (BioGuard Master Trichloro Compacted) and 5185-501 (BioGuard Silk) are allowed to put the referral statement on the front</li> </ul>
Page 4	<ul style="list-style-type: none"> <li>• Add optional Spanish statement and English translation with accompanying Note to reviewer above Directions for Use <i>{If the following Spanish statement is used it must appear directly above DIRECTIONS FOR USE }</i> <i>Si usted no entiende la etiqueta busque a alguien para que se la explique a usted en detalle (If you do not understand the label find someone to explain it to you in detail )</i></li> </ul>

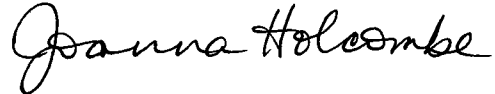
Please find the enclosed documents in support of this notification

- Application for Notification
- Certification with Respect to Label Integrity
- CD with label and
- One copy of the proposed label with changes highlighted

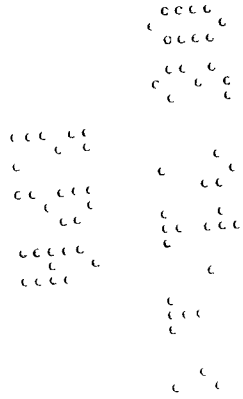
If you have any questions or need any additional information please feel free to contact me at 678-627-2336

2/2 May 31 2012 PACE Concentrated Pool Chlorinating Tablets EPA Reg No 1258 905 Label Notification

Sincerely  
Lonza Inc



Joanna Holcombe  
Sr Commercial Regulatory Services Associate



Note to reviewer

[Items in brackets [AAA] are optional and may/may not be included on final label]

{Items in braces {AAA} are for information purposes and will not appear on final label}

# PACE<sup>®</sup> Concentrated Pool Chlorinating Tablets

Active Ingredient	Trichloro-s-Triazinetrione	99%
Other Ingredients		1%
Total		100%

Available Chlorine 90%

NOTIFICATION  
 Date Reviewed 8/20/12  
 Reviewed By [Signature]

KEEP OUT OF REACH OF CHILDREN

## DANGER [PELIGRO]

**Contamination or improper use may cause fire or explosion or the release of toxic gases** Do not allow product to contact any foreign matter including other water treatment products **If product is exposed to small amounts of water, it can react to cause explosion or the release of toxic gases** **Do not add water to this product Add only into water** {Optional – for use on residential use swimming pool products} **[Do not mix this product with a small amount of water Only add directly to your pool or spa ]** {Optional – for use on residential use swimming pool products} [Do not remove floater or other dispensing device from water for more than five minutes if it contains a tablet or tablet residue ] **Corrosive Causes irreversible eye damage and skin burns May be fatal if inhaled or absorbed through skin Harmful if swallowed**

Read all precautionary statements and first aid statements before use

{Note to reviewer Although this product has a Danger' signal word as per the EPA label review manual The Agency may permit reasonable variations in the placement of the First Aid statement as long as the reference statement See First Aid (or Statement of Practical Treatment) on (identify appropriate panel) appears on the front panel If the First Aid Statements are placed on the front panel of the final graphic label the statement below will not be used }

See [left] [right] [back] [side] panel for Precautionary and First Aid Statements

EPA Reg No 1258-905  
 EPA Est No Xxx-yy-zz  
 Net Wt ###

Sold by  
 Arch Chemicals Inc  
 P O Box 723547  
 Atlanta GA 31139-3547

[Sock It®] [Super Sock It®] [Pool Breeze] [PACE®] [brand] and [ph Plus®] (brand name) are registered trademarks of Arch Chemicals Inc

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

**DANGER** Corrosive Causes irreversible eye damage and skin burns May be fatal if inhaled or absorbed through the skin Harmful if swallowed Irritating to nose and throat

- Open in a well ventilated area Do not breathe dust or fumes
- Do not get in eyes on skin or on clothing
- Wear goggles and rubber gloves when handling this product For additional protection of skin wear long sleeves and long pants
- Wash thoroughly with soap and water after handling and before eating drinking or using tobacco
- Remove and wash contaminated clothing before reuse

**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 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

**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 INHALED** Move person to fresh air If person is not breathing call 911 or an ambulance then give artificial respiration preferably mouth-to-mouth if possible Call a poison control center or doctor for further treatment advice Have the product container or label with you when calling a poison control center or doctor or going for treatment

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

**IN CASE OF EMERGENCY CALL 1-800-654-6911**

**PHYSICAL and CHEMICAL HAZARDS**

**DANGER** If product is exposed to small amounts of water it can react to cause explosion or the release of toxic gases **Do not add water to this product Add only into water**

- Do not allow to become wet or damp before use
- {Optional – for use on residential use swimming pool products} [Do not remove floater or other dispensing device from water for a more than five minutes if it contains a tablet or tablet residue ]

Can react with other materials including other water treatment products to cause fire explosion and the release of toxic gases

- Keep all foreign matter including other water treatment products away from this product
- {Optional – for use on residential use swimming pool products} [Do not use this product in a floater or feeder that has been used with any other product ]
- Do not allow this product to contact other water treatment products {Optional – for use on residential use swimming pool products} [If used with a skimmer make sure skimmer is completely clean and free of residue from other water treatment products before putting this product in the skimmer ]

**Strong oxidizing agent This product can increase fire intensity**

- Keep away from heat and from flame and burning material (like a lighted cigarette)

{Environmental hazards statement for end-use products in containers less than 5 gallons (liquid) or less than 50 pounds (solid dry weight) use only the first sentence all others use the full paragraph }

**ENVIRONMENTAL HAZARDS** This pesticide is toxic to fish and aquatic organisms Do not discharge effluent containing this product into lakes ponds streams 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 authorities For guidance contact your State Water Board or Regional Office of the EPA

**STORAGE & DISPOSAL** {Optional statements – usage depends on whether or not refillable or nonrefillable containers are used and whether or not product is packaged for household/residential use only}

{Nonrefillable container - household/residential use}

[Keep this product dry in its tightly closed container when not in use Store in a cool dry well ventilated area Keep away from heat or open flame Nonrefillable container Do not reuse or refill this container Rinse empty container thoroughly with water to dissolve all material prior to disposal Offer for recycling if available Do not contaminate food or feed by storage or disposal or cleaning of equipment FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING ]

{Refillable container – household/residential use}

[Keep this product dry in its tightly closed container when not in use Store in a cool dry well-ventilated area Keep away from heat or open flame Do not contaminate food or feed by storage or disposal or cleaning of equipment FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING Refillable container Refill this container with Trichloro-s-Triazinetrione only Do not use this container for any other purpose Rinse empty container thoroughly with water to dissolve all material prior to disposal ]

{Nonrefillable container - non-household/residential use}

[Keep this product dry in its tightly closed container when not in use Store in a cool dry well-ventilated area Keep away from heat or open flame Do not contaminate food or feed by storage or disposal or cleaning of equipment FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING Nonrefillable container Do not reuse this container Offer for recycling if available Rinse empty container thoroughly with water to dissolve all material prior to disposal ]

{Refillable container – non-household/residential use}

[Keep this product dry in its tightly closed container when not in use Store in a cool dry well-ventilated area Keep away from heat or open flame Do not contaminate food or feed by storage or disposal or cleaning of equipment FOR DISPOSAL OF A CONTAMINATED OR DECOMPOSING PRODUCT SEE EMERGENCY HANDLING Refillable container Refill this container with Trichloro-s-Triazinetrione only Do not use this container for any other purpose Cleaning of this container before final disposal is the responsibility of the person disposing of the container Cleaning before refilling is the responsibility of the refiller Rinse empty container thoroughly with water to dissolve all material prior to disposal ]

**EMERGENCY HANDLING** In case of contamination or decomposition – Do not reseal container Immediately remove container to an open and well-ventilated outdoor area by itself Flood with large amounts of water Dispose of the container and any remaining contaminated material in an approved landfill area

**{MARKETING CLAIMS}**

- {Statements available to all labels}
- [90% Available chlorine]
- [Concentrated chlorinator for routine use]
- [Kills bacteria destroys organic contaminants and controls algae]
- [Kills algae]
- [Totally soluble]
- [Slow dissolving]

- {Optional statements for use only with swimming pool sanitization directions}
- [For routine use in automatic feeders floaters and plastic skimmers]
- [One dose treats 10 000 gallons]
- [Sanitizes pool water]
- [Swimming pool sanitizer]
- [Sun protected for extended chlorine life]
- [Sun resistant for extended chlorine life]
- [Good for all pool surfaces]



**[Brand] HELPLINE**  
**[866 HTH-POOL] [866-4 POOL FUN]**

Toll Free  
Call 7 days a week with your questions concerning pool water care 8 00 a m - 10 00 p m Eastern Time  
[Visit [brand] [www xxx com](http://www.xxx.com)]

{Optional } [ ]

PACE Concentrated Pool Chlorinating Tablets

EPA Reg No 1258 905

EPA Stamped Label 1 25 08 with Notifications 2 26 08 8 1 08 8 18 08 Draft 5 31 2012

*{If the following Spanish statement is used it must appear directly above DIRECTIONS FOR USE }  
Si usted no entiende la etiqueta busque a alguien para que se la explique a usted en detalle (If you do not understand the label find someone to explain it to you in detail )*

**DIRECTIONS FOR USE** It is a violation of Federal law to use this product in a manner inconsistent with its labeling

READ ALL PRECAUTIONARY STATEMENTS BEFORE USE

**{Use 1}[Swimming Pools**

**WHY YOU SHOULD USE THIS PRODUCT** [brand 1 ] [chlorinating] tablets are formulated to protect against chlorine loss in direct sunlight and can be used in floaters feeders or skimmers These convenient and easy to use tablets are designed to dissolve slowly providing a steady source of available chlorine for complete swimming enjoyment in your pool [For best results [during the season] follow [our] [the] [brand] 4 step pool care program [outlined below] ] [For crystal clear pool water follow [our] [the] [brand] 4 step pool care program Step 1 Test and adjust pool water balance Step 2 Chlorinate and clarify Step 3 Shock treat your pool at least once a week and Step 4 Add algaecide regularly ]

[For best results follow a weekly program with our [brand] System Consult your authorized [brand] dealer for advice on the system that best suits your pool and your lifestyle ] [Take a pool water sample to your authorized [brand] dealer regularly for a detailed water sample ]

[Always use [brand] Shock products for regular shock treatment Additional shocking to keep water clean and clear is recommended after rain and heavy winds high number of swimmers increased water temperature and/or increased frequency of pool usage ]

**HOW TO USE** For best results use an automatic chlorine feeder or floating dispenser designed for this product or place this product in the skimmer basket Do not allow this product to get damp or wet before use Do not allow this product to contact other water treatment products If placed in skimmer run the pump a minimum of eight hours daily Make sure skimmer is completely free of residue from other water treatment products before putting this product in the skimmer DO NOT put product in floaters or feeders that have used other dry chlorinating products DO NOT permit tablets to contact plastic pool linings or metal objects DO NOT throw tablets directly into pool DO NOT use with any other tablets or sticks in the same skimmer floater or feeder [Do not pre-mix this product ] [Only add this product directly to your pool ]

**WATER BALANCE** To provide optimum product performance swimmer comfort and crystal clear water always maintain pH from 7.2 to 7.6 total alkalinity from 80 to 120 parts per million (ppm) and calcium hardness above 200 ppm Test frequently using a reliable test kit that measures all of the above ranges Make any necessary adjustments promptly with appropriate products

**OPENING YOUR POOL** Balance pool water shock treat or superchlorinate with a [brand] shock product Follow label directions on those products Stabilize your pool water using [brand] stabilizer and conditioner Then follow ROUTINE CHLORINATION directions

**[ROUTINE CHLORINATION** For best results see WATER BALANCE section above before treatment Add four one-half ounce tablets for each 10 000 gallons of pool water every other day or as needed to maintain chlorine residual of 1 to 4 ppm free available chlorine (FAC) Follow **HOW TO USE** Maintain water as stated see **WATER BALANCE** The dosage may vary depending upon bather load water temperature and other conditions Pool should not be entered until the chlorine residual is 1.4 ppm as measured by a reliable test kit As a preventative treatment you should shock treat the pool weekly to burn out organic material and to keep water sparkling clear ]

**[SHOCK TREATMENT** [In the case of algae colored water unpleasant odors burning eyes excess bather load heavy rains and winds or high temperatures shock treat or superchlorinate with your preferred [brand] shock product Follow label directions of shock product ]



[For best results see Water Balance section above before treatment Adjust pH to 7.2 to 7.6 [with [brand] [pH plus] or [pH minus] per label directions] Shock treat weekly [with a product such as [brand] Shock] to kill bacteria control algae burn out organic material and to keep water sparkling clear Follow label directions Do not re-enter pool until the free available chlorine residual is 1 to 4 ppm ]]

**[ALGAE CONTROL]** If pool surface develops algae or feels slippery follow shock treatment directions Immediately after shock treatment thoroughly clean pool by scrubbing surface of algae growth vacuum and cycle through filter If necessary repeat the procedure Pool should not be entered until the chlorine residual is 1-4 ppm ]

**[ALGAE CONTROL]** For preventative algae control use your preferred [brand] algacide product regularly ]

**{Use 2} [For Use in Industrial Recirculating Water Cooling Towers, Air Washers & Evaporative Condensers**

Treatment with this product is an effective way to control the growth of bacteria and algae in industrial recirculating water cooling towers air washers and evaporative condensers

[Air Washers - For use only in industrial air washer systems that maintain effective mist eliminating components This product controls slime forming bacteria and fungi in air washer systems This product may be added to the system either continuously or intermittently or as needed The frequency of feeding and duration of the treatment will depend on the severity of the problem ]

- 1 Badly fouled systems should be cleaned prior to initiating treatment
- 2 Initial Dosage - When the system is just noticeably fouled using a suitable feeding device add 8 oz of this product per 10 000 gallons of water contained in the system Repeat or increase this dosage if necessary until free available chlorine level (FAC) of 0.5 - 1.0 ppm is obtained (as determined by use of a reliable test kit)
- 3 Maintenance Dosage - To obtain an FAC of 0.5 - 1.0 ppm add 0.8 - 1.6 oz of this product per 10 000 gallons of water or as needed
- 4 This product should be added to the system at a point where adequate flow is maintained Variations in water temperature chlorine demand and flow rate will affect the dissolution rate Warmer seasons may require an upward adjustment of the FAC ]

**{Use 3} [For Use in Sewage Treatment**

1 Disinfection of Effluents - Disinfection by chlorination does not occur instantaneously A suitable detention basin must be provided to expose the sewage effluent to the effects of this product for a sufficient period of time (usually a minimum of 15 minutes) Where mechanical stirring or other agitation is not present chlorination for disinfection should be introduced before primary or secondary sedimentation treatments if these are used

The amount of product solution required will vary depending on the concentration and conditions of the final effluent The sewage should be treated before it has reached a septic state Experiments indicate that about 30% of the chlorine demand of raw sewage is attributed to settle solids 40% to suspended and colloidal solids and 30% to dissolve solids

Whenever possible disinfection should be controlled by laboratory checks Disinfection can be achieved when the chlorine residual (after 15 - 30 minutes contact time) is between 0.6 and 1.0 ppm Experience with different types of treated sewage will generally establish a relationship between the residual chlorine content of the final effluent and the contact time necessary to insure the desired bacteriological results after which the residual chlorine and time of contact may be made the controlling factors for operation Occasional bacteriological checks should be practiced as a safeguard

Feeding devices for this product used to treat sewage in small communities should always be located near the influent of the detention basin. To conform to the requirements mentioned above, the feed rate must be adjusted to the higher dosages usually required for sewage practices. In cases where sewage is to be temporarily disinfected before being diluted in a body of water, the following conditions will usually provide satisfactory protection against pollution of receiving waters: (a) Raw sewage 10 - 30 ppm available chlorine (b) Primary treated sewage 5 - 20 ppm available chlorine (c) Sewage which has undergone primary and secondary treatment or secondary alone 2 - 5 ppm. Bacteriological tests should be made frequently as a safeguard. The available chlorine level in the discharge effluent should be between 0.6 and 1.0 ppm or in accordance with an NPDES permit. For guidance, contact the regional office of EPA.

2 Slime Control - When ponding of the filters is excessive, stoppage of the distributing filter can occur. The continual feeding of a chlorinating solution into the effluent at a point above the filter nozzles will clean the filter satisfactorily. Dosages will depend on the amount of excess slime accumulated on the nozzles and filter stone. Extreme cases may require dosages as high as 10 ppm available chlorine. Once the desired cleaning has been achieved, an intermittent application of chlorinating solution to the dosing tanks just ahead of the filter is usually successful. The amount and frequency of the dosage needed to give satisfactory continuous operation of the trickling filters depends on the severity of the microbiological problem.

In activated sludge plants, bulking sludge can be caused by the presence of slime which interrupts proper settling. A solution of this product introduced at some point on the return sludge line can be an effective control measure. Normal dosage rates are 2 - 8 ppm available chlorine.

3 B O D Reduction - The condition can usually be avoided by applying a solution of this product to the effluent until a substantial residual is obtained. Application should be made at a point which will permit 10 - 20 minute contact time prior to the discharge of the effluent into the stream. A dosage which leaves a residual available chlorine of about 0.2 ppm after a contact time of at least 10 minutes will afford a reduction of about 1/3 of the effluent's B O D. Where more permanent or greater B O D reduction is necessary, dosing to higher available chlorine residuals is recommended.

Coagulation and Sedimentation - A great deal of the finer divided suspended matter and most of the colloidal matter in sewage does not readily respond to plain sedimentation. The job of removing substantial portions of this kind of matter is usually accomplished either by chemical precipitation, by filtration, or by the use of both processes. Research has proven that pre-hypochlorination will improve sedimentation and coagulation in sewage treatment operations.

5 Treating Effluent from Mobile Sewage Treatment Units - Only human waste, toilet paper and water should enter the mobile sewage treatment unit. Solids are retained in the unit for later removal, while the liquid portion is filtered, disinfected and discharged. Product is placed in a flow-thru container where the liquid effluent passes over them before being discharged.

Disinfection by chlorination does not occur instantly and a suitable detention basin must be provided to expose the sewage effluent to the effects of this product for a sufficient period of time (usually a minimum of 15 minutes). Tests should be made frequently as a safeguard. The available chlorine level in the discharge effluent should be between 0.6 and 1.0 ppm or in accordance with an NPDES permit. For guidance, contact the regional office of EPA.]

**{Use 4} [For Use Throughout Food & Beverage Processing and Food Handling Operations**

This product is recommended for sanitization of all types of non-porous equipment and utensils used in Food Processing & Caning Plants, Bottling Plants & Breweries, Fish Processing Plants, Meat & Poultry Processing Plants, Milk Handling & Processing Plants, Restaurant & Institutional Dining Establishments and Poultry Houses.

Prior to sanitization, food particles and soil must be removed by a pre-flush or a pre-scrape, or where necessary, by a pre-soak. Surfaces or objects must be washed with a good detergent or cleaner and rinsed with potable water.

Using a suitable feeding device make a solution containing 100 ppm available chlorine to sanitize previously cleaned processing and packaging equipment. Allow at least a one minute contact time before draining. Allow adequate draining and air dry before contact with beverages or food.

To control the growth of bacteria in brewery pasteurizers badly fouled systems should be cleaned before treatment. When the system is just noticeably fouled using a suitable feeding device add 8 - 10 ounces of this product per 10 000 gallons of water contained in the system. Adjust the feed rate and repeat or increase this dosage if necessary until a free available chlorine level (FAC) of 0.5-1.0 ppm is obtained (as determined by use of a reliable test kit). To maintain an FAC of 0.5-1.0 ppm using a suitable feeding device add 1 - 2 ounces of this product per 10 000 gallons of water weekly or as needed. Solutions of this product should be added to the system at a point where adequate flow is maintained.

**Methods of Application of Solutions of This Product** All sanitizing solutions should be freshly prepared. Use a suitable feeding device to prepare this solution. Solutions should be tested during use to make sure the concentration does not drop below the recommended level. Keep in properly labeled containers to protect against contamination. Unused solutions should be discarded.

For mechanical operations the solution may not be re used for sanitizing.

**Clean-In-Place Method of Sanitizing Equipment** - This method is commonly used to sanitize closed systems such as fluid milk cooling and handling equipment. It is also appropriate for sanitizing weigh tanks, coolers, short-time pasteurizers, pumps, homogenizers, fillers, sanitary piping and fittings, and bottle and can fillers.

First clean all equipment thoroughly immediately after use. Then place back in operating position.

Using a suitable feeding device prepare a solution containing 100 ppm available chlorine (1 oz. of product per 67 gallons of water) in a volume sufficient to fill the equipment. Allow a 10% excess for waste.

Pump the solution through the system until it is filled and air excluded. Close final drain valves and hold under pressure for two minutes to insure proper contact with all surfaces. Then drain the solution.

**[Coarse] Spray method of Sanitizing Equipment** - The [coarse] spray method is generally used to sanitize large non-porous surfaces that have already been freed of physical soil. It is appropriate for batch pasteurizers, holding tanks, weigh tanks, tank trucks and cars, vats, tile walls, ceilings and floors.

Using a suitable feeding device prepare a solution containing 100 ppm available chlorine. If possible use pressure spraying equipment designed to resist chlorine-containing solutions (e.g. rubber coated, plastic or stainless steel). When using any other kind of spraying equipment be sure to empty and rinse thoroughly with fresh water immediately after treatment.

Apply spray heavily to all surfaces the product will touch. All treated surfaces, corners and turns should be thoroughly sprayed. Allow at least a one minute contact time before draining. Allow excess solution to drain off thoroughly then place in service.

**General Rinse Method** - A solution of this product containing 100 ppm available chlorine will sanitize plant floors, walls and ceilings, and also control odors in refrigerated areas and drain platforms.

Flush or swab surfaces generously with the solution. After two minutes contact time allow solution to drain thoroughly.]

### **{Use 5} [Egg Processing Plants**

To clean egg shells spray with a solution containing 100 ppm available chlorine at 90°F to 120°F. Spray-rinse the cleaned eggs with warm potable water. Use a suitable feeding device to prepare this solution.

To destain egg shells immerse the eggs in a solution containing 100 ppm available chlorine at 90°F to 120°F. After destaining the eggs must be cleaned by spraying with an acceptable cleaner. Follow with potable water rinse. Use a suitable feeding device to prepare this solution.

For shell egg sanitizing thoroughly spray only clean whole eggs (dirty cracked or punctured eggs cannot be sanitized) with warm (not exceeding 130 deg F ) potable water containing 100 ppm available chlorine Use a suitable feeding device to prepare this solution Eggs that have been sanitized with this chlorine compound may be broken for use in the manufacture of egg products without a prior potable water rinse Eggs should be reasonably dry before casing or breaking Do not reuse the solution for sanitizing eggs

All egg cups breaking knives trays and other equipment that come into contact with bad or rotten eggs should be thoroughly cleaned and sanitized First clean all equipment Before placing back in use spray with a solution containing 100 ppm available chlorine Use a suitable feeding device to prepare this solution Allow at least a one minute contact time and allow surfaces to drain thoroughly before contact with egg products

To sanitize egg freezers and dryers (tanks pipelines and pumps) use the [coarse] spray method of treatment This procedure is generally used to sanitize large non porous surfaces that have already been freed of physical soil Prepare a solution containing 100 ppm available chlorine Use a suitable feeding device to prepare this solution Apply spray heavily to all surfaces the eggs will touch All treated surfaces corners and turns should be thoroughly sprayed Allow at least a one minute contact time before draining Allow equipment to drain adequately before contact with eggs ]