

1258-1069

3/29/2001

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

MAR 29 2001

Garrett B. Schifilliti
Arch Chemicals, Inc.
501 Merritt 7
Norwalk, CT 06856

Subject: *HTH Dry Chlorinator Granular
for Sparkling Clear Pool Water
EPA Registration Number 1258-1069
Notification Per PR Notice 98-10*

Dear Mr. Schifilliti:

This will acknowledge receipt of your notification to add Non-FIFRA language to your label, submitted under the provisions of FIFRA Section 3 (c) 9. Based on a review of the submitted material the following comments apply.

The information on bleaching & debonding of paper pulp in Pulp & Paper Mills, is acceptable and has been made a part of the file for this product.

Sincerely,

Wanda Y. Mitchell
Notification Coordinator
Regulatory Management Branch II
Antimicrobials Division (7510C)

CONCURRENCES

SYMBOL	▶ 7510C						
SURNAME	▶ Mitchell						
DATE	▶ 3-29-01						



Please read instructions on reverse before completing form.

Form Approved, OMB No. 2070-0060, Approval expires 2-28-95

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EPA	United States Environmental Protection Agency Washington, DC 20460	<input type="checkbox"/> Registration <input type="checkbox"/> Amendment <input checked="" type="checkbox"/> Other	OPP Identifier Number
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Application for Pesticide - Section I

1. Company/Product Number 1258-1069	2. EPA Product Manager R. Brennis	3. Proposed Classification <input checked="" type="checkbox"/> None <input type="checkbox"/> Restricted
4. Company/Product (Name) HTH Dry Chlorinator Granular for Sparkling Clear Pool Water		PM# 32
5. Name and Address of Applicant (Include ZIP Code) Arch Chemicals, Inc. 501 Merritt 7 Norwalk, CT 06856 <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.)
 Notification of a Non-FIFRA (Bleaching & Debonding of paper pulp in Pulp & Paper Mills) use which will be a part of the labeling for this product. Copy attached.

Section - III

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

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)		
Name Garrett B. Schifilliti	Title Manager, Regulatory Services	Telephone No. (include Area Code) (203) 229-3510
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 Application Received (Stamped)
2. Signature 		
3. Title Manager, Regulatory Services		
4. Typed Name Garrett B. Schifilliti		5. Date 3/1/01

Arch Chemicals, Inc.
501 Merritt 7
P. O. Box 5204
Norwalk, CT 06856-5204
Tel 203.229.2900



Notification of a Non-Fifra Use Which will be a part of the labeling for this product

(Bleaching & Debonding of paper pulp in Pulp and Paper Mills)

Per PR Notice 98-10

HTH Dry Chlorinator Granular for Sparkling Clear Pool Water

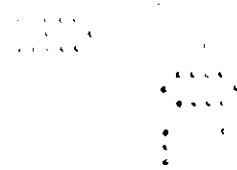
EPA Reg. No. 1258-1069

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.

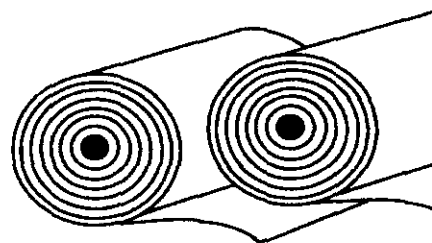
March 1, 2001

A handwritten signature in black ink, appearing to read "Garrett B. Schifilliti". The signature is fluid and cursive, written over a light background.

Garrett B. Schifilliti
Manager Regulatory Services



HTH® Dry Chlorinator for Treatment of: PULP & PAPER



Papermaking Industry

In general, HTH® Dry Chlorinator is an effective bleaching agent for all the common paper dyes. To be sure that a particular dye is bleachable with HTH solutions, the dye must either be identified properly or tested for bleachability.

How to Identify Dyes:

In all, about 100 different types of dyestuffs are used for coloring paper. But every manufacturer has its own name for each generic dye - resulting in thousands of different trade names.

A comprehensive directory, the *Colour Index*, is published by the *American Association of Textile Chemists and Colorists* (AATCC), providing a cross-reference of generic and trade names. Volume 5 lists dyes generically, each with a color index number that corresponds to every trade name for that particular dye. So if the generic type is known, all trade names can be found and vice versa.

Figure 1 lists some of the common generic paper dyes which can be bleached with HTH Dry Chlorinator. (Listings appear just as they do in the AATCC *Colour Index*.)

How to Test for Bleachability:

When dyes in colored broke are unidentified, the following simple test will determine whether or not HTH Dry Chlorinator will be an effective bleaching agent.

Make up a small quantity of 3% HTH solution and add a few handfuls of broke. If all color is destroyed (even in mixed color batches), the entire batch should bleach out when treated with HTH Dry Chlorinator.

The Bleaching Process:

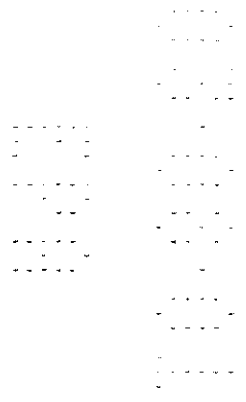
Quantities of water and HTH Dry Chlorinator necessary for effective bleaching should be determined by the dry weight of the broke to be processed. As a rule, the available chlorine content of solutions should be about 2% of the dry broke weight.

Example:

2,500 lbs. of broke will require 50 pounds (2,500 x .02) of available chlorine (1,000kgs requires 20 kgs (1000 x .02) of available chlorine). Since HTH Dry Chlorinator contains 65% available chlorine 77 lbs. (50 divided by 65%), 31 kgs (20 kgs divided by 65%) will be required to deliver the proper amount of chlorine.

To assure the proper consistency of the final pulp, the weight of the dry broke should be 5 to 6% of the total weight of the broke and water. To attain this consistency, 2 gallons (20 liters) of water for every pound or kilogram of dry broke. Thus, to bleach 2,500 pounds of dry broke 5,000 gallons of water will be needed (20,000 liters of water for 10000 kgs of dry broke).

Ideally, HTH Dry Chlorinator should be introduced as a solution through a perforated pipe or sparger arrangement. Otherwise, it should be added evenly with a clean, stainless steel scoop. Do not handle HTH Dry Chlorinator with bare hands.



Storable stock solutions prepared in volume should contain 10 lbs. of *HTH* Dry Chlorinator for every 26 gallons of water (4.6 kgs/100 liters. Make sure mixing water is warm. Store the stock solution in plastic containers.

If a solution is used, benchmark proportions for the full charge should be adjusted, as follows, to account for the water added with the *HTH* Dry Chlorinator:

250 lbs (100 kgs) dry broke
480 gallons (1600 liters) water
20 gallons (67 liters) *HTH* stock solution

The actual bleaching process can be accomplished in a conventional pulping unit. To prepare the bleach run, add the proper amount of water required by the dry broke weight and heat to 60°C or 140°F. (If water is too cool, the solution will not activate properly. Under 21°C or 70°F, bleaching may not occur.)

Once the water is heated, broke should be added and pulped. *HTH* Dry Chlorinator, either in solution or dry, should then be introduced as quickly and evenly as possible during the beating cycle.

Figure 1 Common Paper Dyes Bleachable with <i>HTH</i> Dry Chlorinator					
Generic Name	Colour Index Number	Generic Name	Colour Index Number	Generic Name	Colour Index Number
<i>Acid Red</i>		<i>Basic Orange</i>		<i>Direct Blue</i>	
14	14720	2	11270	6	22610
88	15620	<i>Acid Yellow</i>		14	23850
27	16185	36	13065	8	24140
18	16255	3	47005	1	24410
1	18050	2	47010	<i>Basic Blue</i>	
73	27290	<i>Direct Yellow</i>		26	44045
<i>Direct Red</i>		4	24890	9	52015
20	15075	<i>Basic Yellow</i>		<i>Acid Violet</i>	
28	22120	2	41000	17	42650
17	22150	<i>Acid Green</i>		<i>Basic Violet</i>	
37	22240	3	42085	1	42535
1	22310	9	42100	23	42555
2	23500	<i>Direct Green</i>		5	50205
75	25380	6	30295	<i>Direct Brown</i>	
81	28160	<i>Basic Green</i>		2	22311
23	29160	4	42000	1	30045
<i>Basic Red</i>		1	42040	6	30140
1	45160	<i>Acid Blue</i>		<i>Basic Brown</i>	
2	50240	22	42755	1	21300
<i>Acid Orange</i>		45	63010	<i>Acid Black</i>	
7	15510			1	20470
8	15575			2	56426
<i>Direct Orange</i>				<i>Direct Black</i>	
8	22130			38	30235

If colors are relatively light or weak, the proportion of *HTH* Dry Chlorinator to dry broke weight may be reduced. Experience will dictate the most economical quantity to use in each case. It is useful to log actual proportions by color, so that future batches of the same or similar shades can be treated routinely.

If necessary, the final step in the bleaching process is to reduce the pH of the pulped mixture to 5 or 6. At the end of the beating cycle, use 0.5% sodium acid sulfate (nitre cake) or dilute sulfuric acid. (Do not use alum, since it tends to set extraneous foreign matter on the pulp.)

Arch Chemicals Inc.
501 Merritt 7
Norwalk, CT 06856

Pulp bleached with *HTH* Dry Chlorinator is often reused without draining or washing. However, draining reduces residual matter which may discolor the pulp; and washing ensures an even brighter, cleaner product.

Because the free chlorine from *HTH* Dry Chlorinator is almost completely consumed in the bleaching process, no antichlors (e.g. sodium thiosulfate, sodium sulfite) need be added at any point in the procedure.