10-24-2007

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U.S. ENVIRONMENTAL PROTECTION AGENCY

Office of Pesticide Programs Antimicrobials Division (7510-P) 1200 Pennsylvania Avenue N.W. Washington, D.C. 20460

NOTICE OF PESTICIDE:

x Registration
Reregistration

EPA Reg.

Date of

Issuance:

266-

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20001

Oct. 24, 2007

Conditional

Name of Pesticide Product:

Sodium Hypochlorite

Term of Issuance: page 1 of 2

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

Hill Brothers Chemical Company 1675 North Main Street Orange, California 92867-3499

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

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

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

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

- 1. Submit and/or cite all data required for registration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data; and, submit acceptable responses required for re-registration of your product under FIFRA section 4.
- 2. Change EPA File Symbol 266-ENNNR to EPA Registration Number 266-20001.
- 3. Revise the language of the First Aid statements as follows: If in Eyes:
- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing.
- Call a Poison Control Center or Doctor for advice.

If Inhaled: - Move person to fresh air.

- If breathing has stopped, call 911 or an ambulance, start artificial respiration, preferably mouth-to-mouth if possible.
- 4. Under the Precautionary Statements make the signal word, DANGER, dark black or red.
- 5. Delete the word Interim from National Primary Drinking Water Regulations.

Continued on page 2

Signature of Approving Official:

Emily H. Mitchell

Product Manager 32

Antimicrobials Division (7510P)

Date:

October 24, 2007

Submit one copy of the finished final printed label prior to releasing this product for sale.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e).

Your release for shipment of the product constitutes acceptance of these conditions.

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

PM-32 64M (initials)

Date: October 24, 2007

Make Bold

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

burne to broken skin. Causes eye damage. Do not get in eyes, skin or clothing. Wear goggles or face shield and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until odors have dissipated.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, estuaries, oceans, or public waters unless in accordance with the requirements of the National Pollutant Discharge Elimination Systems (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 sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS: STRONG OXIDIZING AGENT: Mix only with water according to label directions. Mixing this product with gross filth such as feces, urine, etc. or with ammonia, acids, detergents or other chemicals will release hazardous gases inflating to pyes, ungo, and mucous membranes.

NET CONTENTS:

13 GALLONS

50 GALLONS

250 GALLONS

300 GALLONS

wil: COMMENTS in EPA Letter Doord: OCT 2 4

Under the Federal Insecticide, > Funguate, and Rodenticide Act as

The product in this container has been packaged and labeled in strict conclusions with applicable federal and local laws and regulations in effect of the little of packaging and it may not be, repackaged in any container without prior written permission from the administrative office of Hill Brothers. Repackaging without permission places responsibility for any subsequent loss and/or claim solely on the re-packager. The information contained hereon is based on data considered accurate, but no warranty is expressed or implied regarding the accuracy of these data or the results to be obtained from the use thereof. User of the product answerse the risk in his use of this material.

Manufactured by: HILL BROTHERS CHEMICAL COMPANY

4450 N. 42nd Ave.; Phoenix, AZ 85019 (602) 272-9363
FGR 24 HOUR EMERGENCY INFORMATION CALL CHEMTREC: (800) 424-9300
Branch Locations: Industry San Jose, CA: Phoenix, Tucson, AZ; Salt Lake, UT

SODIUM HYPOCHLORITE

SANITIZER, DISINFECTANT

	% BY WT.
SODIUM HYPOCHLORITE	12.5%
INERT INGREDIENTS	87.5%
TOTAL	100%

DANGER

	FIBSTAID AND gent
If in eyes Then	Hold eyes oper litting the lower and upper lide Flushr with water for et less 95 minutes, remove contact lenses if present, after the first 5 minutes. Continue rinsing Cell a Poissate 20 minutes Bernove conteminated clothing.
If on skin or clothing	Remove contaminated clothing Rinse immediately with water for 15-20 minutes
If swallowed	Call poison control or doctor immediately for treament or 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.
If inhaled	Bemove to fresh air Person If breathing has stopped, start artificial respiration
NOTE TO PHYSICI	AN: Probable mutossal clamane may contraindicate the use of destric layers

Reg. No. (**TBD**) 2-66 - ENNNR EPA EST. NO. 266-AZ-1 (preferably mouth-to

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

FOR SWIMMING POOL SANITATION AND INDUSTRIAL DISINFECTION AND SANITATION

For additional directions and uses, refer to Hill Brothers' Supplemental Sodium Hypochlorite Usage Bulletin.

STORAGE AND DISPOSAL:

Store this product in a cool dry area, away from direct sunlight and heat to avoid deterioration. In case of spill, flood areas with large quantities of water. Product or rinsates that cannot be used should be diluted with water before disposal in a sanitary sewer. Do not reuse empty container but place in trash collection. Do not contaminate food or feed by storage, disposal or cleaning of equipment.

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SODIUM HYPOCHLORITE

Supplemental Usage Bulletin

ACTIVE INGREDIENT % BY WT. SODIUM HYPOCHLORITE......12.5% INERT INGREDIENTS......87.5% TOTAL 100%

ACCEPTED with COMMENTS In EPA Letter Dated:

OCT 2 4 2007

ar the Federal Insecticide, ms, and Rodermoids Act as · -d tot the pesticide, * verse mider EPA Reg. No.

mat har felte

KEEP OUT OF REACH OF CHILDREN **DANGER**

	FIRST AID
If in eyes	Hold eyes open lifting the lower and upper lids Flush with water for at least 15 minutes, remove contact lenses if present, after the first 5 minutes Continue rinsing
lf on skin or clothing	Remove contaminated clothing Rinse immediately with water for 15-20 minutes
If swallowed	 Call poison control or doctor immediately for treatment or 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.
If inhaled	Remove to fresh air If breathing has stopped, start artificial respiration

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. May cause severe skin irritation or chemical burns to broken skin. Causes eye damage. Do not get in eyes, skin or clothing. Wear goggles or face shield and rubber gloves when handling this product. Wash after handling. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until odors have dissipated.

ENVIRONMENTAL HAZARDS: This pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing this product into lakes, streams, estuaries, oceans, or public waters unless in accordance with the requirements of the National Pollutant Discharge Elimination Systems (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 sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

PHYSICAL AND CHEMICAL HAZARDS: STRONG OXIDIZING AGENT: Mix only with water according to label directions. Mixing this product with gross filth such as feces, urine, etc. or with ammonia, acids, detergents or other chemicals will release hazardous gases irritating to eyes. lungs and mucous membranes.

DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

To achieve available chiorine (By Weight)	Gallons Water	Add liquid ounces of 12.5% Sodium Hypochlorite
5 PPM	100	
10 PPM	100	1.0 ACCEPTED
15 PPM	100	1.5 with COMMENTS
25 PPM	100	2.6 m EPA Letter Dated:
35 PPM	. 100	3.5
50 PPM	100	5.0
100 PPM	10	3.0 OCT 2 4 2007
200 PPM	10	2.0
500 PPM	. 10	5.0, he Federal Insecticide, >
600 PPM	10	6.0 and Rodenticide Act as
1000 PPM	10	10.5
5000 PPM	10	51.0 1. for the pesticide,
10,000 PPM	10	102.0 and mader EPA Reg. NO.

NOTE: This product degrades with age. Use a chlorine test kit and increase dosage as necessary to obtain the required level of available chlorine.

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SWIMMING POOL WATER DISINFECTION

For a new pool or spring start-up, super-chlorinate with 50 to 100 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Adjust and maintain pool water pH to between 7.2 and 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 ppm.

To maintain the pool, add manually or by a feeder device 11 oz. of this product for each 10,000 gallons of water to yield an available chlorine residual between 0.6 to 1.0 ppm by weight. Stabilized pools should maintain a residual of 1.0 to 1.5 ppm available chlorine. Test the pH, available chlorine residual and alkalinity of the water frequently with appropriate test kits. Frequency of water treatment will depend upon temperature and number of swimmers.

Every 7 days, or as necessary, super-chlorinate the pool with 50 to 100 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not reenter pool until the chlorine residual is between 1.0 to 3.0 ppm.

At the end of the swimming pool season or when water is to be drained from the pool, chlorine must be allowed to dissipate from treated pool water before discharge. Do not chlorinate the pool within 24 hours prior to discharge.

WINTERIZING POOLS — While water is still clear & clean, apply 3 oz. of product per 1,000 gallons, while filter is running, to obtain a 3 ppm available chlorine residual, as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacturer's instructions.

SPAS, HOT-TUBS, IMMERSION TANKS, ETC.

SPAS/HOT-TUBS – Apply 5 oz. of product per 1,000 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleaners, etc., may cause foaming or cloudy water as well as reduce the efficiency of the product. Reentry is prohibited above the level of 5 ppm chlorine due to risk of bodily injury.

To maintain the water, apply 5 oz. of product per 1,000 gallons of water over the surface to maintain a chlorine concentration of 5 ppm.

After each use, shock treat with 7.5 oz. of this product per 500 gallons of water to control odor and algae. During extended periods of disuse, add 3 oz. of product daily per 1,000 gallons of water to maintain a 3 ppm chlorine concentration.

SANITIZATION OF POROUS FOOD CONTACT SURFACES SPRAY/FOG METHOD

Pre-clean all surfaces after use. Prepare a 600 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 6 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Prepare a 200 ppm sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water.

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES SPRAY/FOG METHOD

Pre-clean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or fungi and a 600 ppm solution to control bacteriophage. Prepare a 200 ppm sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 2 oz. product with 10 gallons of water. Prepare a 600 ppm solution by thoroughly mixing the product in a ratio of 6 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces treated with a 600 ppm solution with a 200 ppm solution.

DISINFECTION OF DRINKING WATER (POTABLE)

PUBLIC SYSTEMS: Mix a ratio of 1 oz. of this product to 100 gallons of water. Begin feeding this solution with a hypo-chlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 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 thoroughly mixing 1 oz. of this product into 10 gallons of water. After covering the well, pour the sanitizing solution into the well through both the pipe sleeve opening and the pipeline. Wash the exterior of the pump cylinder also with the sanitizing 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. Consult your local Health Department for further details.

SEWAGE AND WASTEWATER EFFLUENT TREATMENT

The disinfection of sewage effluent must be evaluated by determining the total number of coliform bacteria and/or fecal coliform bacteria, as determined by the Most Probable Number (MPN) procedure, of the chlorinated effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction.

On the average, satisfactory disinfection of secondary wastewater effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact. Although the chlorine residual is the critical factor in disinfection, the importance of correlating chlorine residual with bacteria kill must be emphasized. The MPN of the effluent, which is directly related to the water quality standards requirements, should be the final and primary standard and the chlorine residual should be considered an operating standard valid only to the extent verified by the coliform quality of the effluent.

The following are critical factors affecting wastewater disinfection.

- 1. Mixing: It is imperative that the product and the wastewater be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the wastewater.
- 2. Contacting: Upon flash mixing, the flow through the system must be maintained.
- 3. Dosage/Residual Control: Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a predetermined, desirable chlorine level. Secondary

ACCEP officient should contain 0.2 to 1.0 ppm chlorine residual after a 15 to 30 minute contact time. A with Companyable average of residual chlorine is 0.5 ppm after 15 minutes contact time.

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SEWAGE AND WASTEWATER TREATMENT

EFFLUENT SLIME CONTROL - Apply a 100 to 1,000 ppm available chlorine solution at a location which will allow complete mixing. Prepare this solution by mixing 10 to 105 oz. of this product with 100 gallons of water. Once control is evident, apply a 15 ppm available chlorine solution. Prepare this solution by mixing 1.5 oz. of this product with 100 gallons of water.

FILTER BEDS – SLIME CONTROL: Remove filter from service, drain to a depth of 1 ft. above filter sand, and add 100 oz. of product per 20 sq. ft. evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing filter.

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 hypochlorinator. 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.

COOLING TOWER/EVAPORATIVE CONDENSER WATER

SLUG FEED METHOD – *Initial Dose:* When system is noticeably fouled, apply 50 to 100 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 10 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT FEED METHOD – *Initial Dose:* When system is noticeably fouled, apply 50 to 100 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half, (or 1/3, 1/4, or 1/5), of this initial dose when half, (or 1/3, 1/4, or 1/5); of the water in the system has been lost by blowdown.

Subsequent Dose: When microbial control is evident, add 10 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half, (or 1/3, 1/4, or 1/5), of this initial dose when half, (or 1/3, 1/4, or 1/5), of the water in the system has been lost by blowdown.

Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD – *Initial Dose*: When system is noticeably fouled, apply 50 to 100 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1.0 oz. of this product per 1,000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

BRIQUETTES OR TABLETS – *Initial Dose:* Initially slug dose the system with 50 oz. of this product per 10,000 gallons of water in the system. Badly fouled systems must be cleaned before treatment is begun. *Subsequent Dose:* When microbial control is evident, add 10 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

COMMERCIAL LAUNDRY SANITIZERS

Wet fabrics or clothes should be spun dry prior to sanitation. Thoroughly mix 2.0 oz. of this product with 10 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the prewash prior to washing fabrics/clothes in the regular wash cycle with a good detergent. Test the level of available chlorine, if solution has been allowed to stand. Add more of this product if the available chlorine level has dropped below 200 ppm.

With COMMENTS

Manufactured by: HILL BROTHERS CHEMICAL COMPANY 4450 N. 42nd Ave., Phoenix, AZ 85019 (602) 272-9363

OCT 2.4 2007

Tinder the Federal Insecticide,
Financiae, and Rodenmonde Act as
amended for the pesucide,
registered under EPA Reg. No.

m EFA Letter Dated:

266-20001

FOR 24 HOUR EMERGENCY INFORMATION CALL CHEMTREC: (800) 424-9300

Locations

City of Industry, San Jose, CA; Phoenix, Tucson, AZ; Salt Lake City, UT

Reg. No. (**TBD**) 266 - ENNICE EPA EST. NO. 266-AZ-1

ACCEPTED with COMMENTS in EPA Letter Dated:

OCT 2 4 2007

The Federal Insecticide, the said Roceilleide Act as the decline of the pesticide, No.

266-20001