

PRODUCT PROFILE

SODIUM HYPOCHLORITE 12.5% (LIQUID BLEACH) DISINFECTION OF DRINKING WATER EMERGENCY, PUBLIC, AND INDIVIDUAL SYSTEMS

DISINFECTION OF DRINKING WATER

PUBLIC SYSTEMS – Mix a ratio of 1 oz. of this product to 100 gallons of water. Begin feeding this solution with a hypochlorinator 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 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 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. 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 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 1 oz. of this product into 10 gallons of water. Add 5 to 10 gallons of clean chlorinated water to the well in order to force the sanitizer into the rock formation. Wash the exterior of pump cylinder with the sanitizer. 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 the high water levels necessitate the use of special methods for introduction of the sanitizer into the well. Contact 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 must be disinfected. Contact your local Health Department for further details.

EMERGENCY DISINFECTION – When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the solution, remove all suspended material by filtration or by allowing it to settle to the bottom. Decant the clarified, contaminated water to a clean container and add 1 drop of this product to 20 gallons of water. Allow the treated water to stand for 30 minutes. Properly treated water should have a slight chlorine odor; if not, repeat dosage and allow the water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it between 2 clean containers several times.

PUBLIC WATER SYSTEMS

RESERVOIRS (ALGAE CONTROL) – Hypochlorinate streams feeding the reservoir. Suitable feeding points must be selected on each stream at least 50 yards upstream from the points of entry into the reservoir.

MAINS – Thoroughly flush section to be sanitized 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 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.

NEW TANKS, BASINS – Remove all physical soil from surfaces. Place 20 oz. of this product for each 5 cubic feet of working 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 surface.

NEW FILTER SAND – Apply 80 oz. 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 sanitizing the new sand.

NEW WELLS - Flush the casing with a 50 ppm available chlorine solution of water containing 5 oz. of this product for each 100 gallons of water. The solution must be pumped or fed by gravity into the well after thorough mixing with agitation. The well should stand for several hours or overnight under chlorination. It may then be pumped until representative raw water sample is obtained. Bacterial examination of the water will indicate whether further treatment is necessary.

EXISTING EQUIPMENT – Remove equipment from service thoroughly and clean surfaces of all physical soil. Sanitize by placing 21 oz. of this product for each 5 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and allow to stand at least 4 hours. Drain and place in service. If the previous treatment is not practical, surfaces must be sprayed with a solution containing 5 oz. of this product for each 5 gallons of water (approximately 1,000 ppm available chlorine). After drying, flush with water and return to service.

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The information on this Product Profile is based on data obtained by our own research and is considered accurate. However, no warranty is expressed or implied regarding the accuracy of this data, the results to be obtained from the use thereof, or that any such use will not infringe any patent. This information is furnished upon the condition the person receiving it shall make his own tests to determine the suitability thereof for his particular purpose. For latest product specifications, contact our nearest sales office.

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DILUTION

To Achieve Available Chloride (By Weight)	Gallons of Water	Add Liquid Ounces of 12.5% Sodium Hypochlorite
1 ppm	10,000 gallons	1.1 oz
3 ppm	1,000 gallons	3 oz
5 ppm	10,000 gallons	52 oz
5 ppm	1,000 gallons	5 oz
10 ppm	10,000 gallons	104 oz
15 ppm	1,000 gallons	16 oz
25 ppm	1,000 gallons	26 oz
35 ppm	1,000 gallons	36 oz
50 ppm	1,000 gallons	52 oz
100 ppm	1,000 gallons	104 oz
200 ppm	100 gallons	21 oz
500 ppm	100 gallons	52 oz
600 ppm	10 gallons	6 oz
1,000 ppm	10 gallons	11 oz
5,000 ppm	10 gallons	52 oz
10,000 ppm	10 gallons	104 oz

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

SAFETY AND HANDLING

Protective clothing, such as rubber gloves, safety goggles, and rubber safety boots should be worn to protect from eye and skin contact. Refer to the Safety Data Sheet.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage disposal or cleaning of equipment. 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 must be diluted with water before disposal in a sanitary sewer.

Refillable container - Refill this container with sodium hypochlorite only. Do not reuse this container for any other purpose. Cleaning 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, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure 2 more times.



Certified to
NSF/ANSI 60

Sodium Hypochlorite 12.5%
EPA Reg.No 266-200001
EPA Est.No. 266-AZ-1; 266-AZ-2

**The information contained in this profile pertains only to Sodium Hypochlorite manufactured at the Hill Brothers Phoenix, AZ facility. It is a violation of federal law to use this product in a manner inconsistent with its labeling.*

