



PERIOD 2014-2016 LIC. NO.

8991.2

Not Approved by the EPA for Swimming Pool Use



SI CALCIUM HYPOCHLORITE TABLETS

WITH SCALE INHIBITOR

POTABLE/INDUSTRIAL WATER CHLORINATION

Accu-Tab® SI Calcium Hypochlorite Tablets Dry Chlorinating Tablets for Industrial and Potable Water Treatment Applications

Table with 2 columns: Ingredient, Percentage. Active Ingredient: Calcium Hypochlorite 68%. Total: 100%.

KEEP OUT OF REACH OF CHILDREN DANGER

Do not mix with any other chemicals, including any other pool chemicals of any kind.

Mixing with other chemicals could cause a fire or explosion.

Always add product to large quantities of water to fully dissolve product.

Do not pour water into product, always add product to water.

Do not use with stabilized chlorine or bromine tablet chemical feeders.

See additional precautionary statements on back label.

FIRST AID

Contact 1-304-455-6882 or your poison control center for 24-hour emergency medical treatment information.

If in Eyes: Hold eye open and rinse slowly and gently with water for 15-20 minutes.

If on Skin or Clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

If Swallowed: Call poison control center or doctor immediately for treatment advice.

If Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage.

Manufactured by / Fabricado por Axiall, LLC 1000 Abemathery Road NE Suite 1200 Atlanta, GA 30328



NET WT. PESO NETO 55 lbs. (25 kg)

Accu-Tab® SI Comprimidos de hipoclorito de calcio

Comprimidos para clorar secos para aplicaciones de tratamiento de agua potable e industrial

Table with 2 columns: Ingrediente Activo, Percentage. Hipoclorito de calcio 68%. Otros Ingredientes 32%. Total 100%.

MANTENGA FUERA DEL ALCANCE DE LOS NIÑOS PELIGRO

No mezclar con otras sustancias químicas, incluyendo cualquier otro producto químico para albercas de cualquier tipo.

Mezclar con otros productos químicos puede causar un incendio o una explosión.

Siempre agregue el producto a grandes cantidades de agua para disolverlo completamente.

No verter agua en el producto, siempre agregue el producto al agua.

No debe utilizarse con alimentadores químicos de comprimidos de cloro o bromo estabilizado.

Ver más consejos precautorios en la etiqueta trasera.

PRIMEROS AUXILIOS

Llame al 1-304-455-6882 o al centro de toxicología para obtener información sobre el tratamiento médico de emergencia las 24 horas.

En caso de contacto con los ojos: mantenga los ojos abiertos y enjuague con agua lenta y suavemente durante 15 a 20 minutos.

En caso de contacto con la piel o la ropa: quite la ropa contaminada. Enjuague la piel inmediatamente con abundante agua durante 15 a 20 minutos.

En caso de ingestión: llame a un centro de toxicología o a un médico inmediatamente para solicitar asesoramiento sobre el tratamiento.

En caso de inhalación: lleve a la persona a un sitio con aire fresco. Si la persona no está respirando, llame al 911 o una ambulancia.

Nota para el médico: un daño probable en la mucosa podría contraindicar el uso de lavado gástrico.

CALCIUM HYPOCHLORITE, HYDRATED UN2880 RQ.

EMERGENCY TELEPHONE NUMBER NÚMERO DE TELÉFONO DE EMERGENCIA 1-304-455-6882



Certified to NSF/ANSI 60



STOP! DO NOT MIX with other products or pre-dissolve before use. ¡ALTO! NO MEZCLE con otros productos o disuelva previamente antes de su uso.

DIRECTIONS FOR USE

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

DISINFECTION OF DRINKING WATER (POTABLE WATER) PUBLIC WATER SYSTEMS

Public Systems: Mix a ratio of 1 ounce of this product to 6,000 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.

INDUSTRIAL 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 ounce of this product into 40 gallons of water.

Drilled, Driven & Bored Wells: Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 1 ounce of this product into 40 gallons of water.

After the initial treatment, feed calcium hypochlorite into the intake line of the well pump. This also helps keep any filters free of slime.

Floving Artesian Wells: Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well must be disinfected.

Flowing Artesian Wells: Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well must be disinfected.

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 sanitizer, remove all suspended material by filtration or by allowing it to settle to the bottom.

OTHER USES

Calcium Hypochlorite is also used in the sanitization of water systems, municipal water mains, sewage and industrial waste treatment, pulp bleaching, sanitization in the food industry, restaurants, dairies, and hospitals.

For additional directions for use, including Service Bulletins, visit www.axiall.com/calciumhypochloriteuse.

INSTRUCCIONES DE USO

Es una violación de la Ley Federal usar este producto de una manera inconsistente con las instrucciones de su etiqueta.

DESINFECCIÓN DE AGUA PARA BEBER (AGUA POTABLE) SISTEMAS PÚBLICOS DE AGUA

Sistemas públicos: Mezcle una proporción de 1 onza de este producto en 6,000 galones de agua. Comience agregando esta solución con un hipoclorinador hasta que se logre una solución de cloro residual libre de al menos 0.2 ppm y no más de 0.6 ppm, a través del sistema de distribución.

SISTEMAS INDIVIDUALES

Pozos excavados: Al finalizar la cubierta (revestimiento) lave el interior de la cubierta (revestimiento) con una solución de cloro de 100 ppm utilizando un cepillo duro. Esta solución se puede hacer mezclando 1 onza de este producto en 40 galones de agua.

Pozos perforados, hincados o barrenados: Active la bomba hasta que el agua esté lo más libre de turbiedad como sea posible. Vierta una solución desinfectante de 100 ppm de cloro en el pozo. Esta solución se puede hacer mezclando 1 onza de este producto en 40 galones de agua.

Después del tratamiento inicial, inyecte el hipoclorito de calcio en la línea de entrada de la bomba del pozo. Esto también ayuda a mantener los filtros libres de fango.

Después del tratamiento inicial, inyecte el hipoclorito de calcio en cualquier lugar de la tubería de descarga del pozo.

Pozos artesianos: Los pozos artesianos por lo general no requieren desinfección. Si los análisis indican contaminación persistente, el pozo debe ser desinfectado.

DESINFECCIÓN DE EMERGENCIA

Cuando no sea práctico hervir el agua durante 1 minuto, se puede potabilizar el agua mediante el uso de este producto. Antes de agregar el desinfectante, elimine todo el material suspendido por medio de filtración o permita que se asiente en el fondo.

OTROS USOS

El hipoclorito de calcio también se usa en la desinfección de los sistemas de agua, tuberías municipales de agua, alcantarillado y tratamiento de residuos industriales, blanqueado de celulosa, desinfección en la industria de alimentos, restaurantes, industrias lácteas y hospitales, control de olor y sabor en los sistemas de agua potable, control de algas en sistemas enfriamiento de agua y para la desinfección general industrial.

Para obtener instrucciones adicionales de uso, incluidos los sistemas de emergencia de agua y para la desinfección general industrial, visite www.axiall.com/calciumhypochloriteuse.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Highly Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and rubber gloves when handling.

ENVIRONMENTAL HAZARDS:

Pesticides are 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.

PHYSICAL AND CHEMICAL HAZARDS: Strong oxidizing agent! Mix only with water. Do not mix this product with any other chemicals, including any other pool chemicals of any kind, such as other disinfection or "shock" pool products.

STORAGE AND DISPOSAL

Do not contaminate food or feed by storage, disposal, or cleaning of equipment.

PESTICIDE STORAGE: Keep this product dry in a tightly closed container when not in use. Store in a cool, dry, well ventilated area away from heat or open flame.

PESTICIDE DISPOSAL: Pesticide wastes may be hazardous. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law.

CONTAINER HANDLING:

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water.

LIMITED WARRANTY: The Manufacturer warrants, for a period of 1 year from purchase, that when this Product is stored and used, all in accordance with label directions, it will fit for its intended purpose.

EPA Reg. No. 748-295 EPA Est. No. 58401-IL-1 LA55TATSI-0114A

DECLARACIONES DE PRECAUCIÓN

RIESGOS PARA PERSONAS Y ANIMALES DOMÉSTICOS

PELIGRO: Altamente corrosivo. Causa daño irreversible a los ojos y a la piel se quemar. Evite el contacto con ojos, piel o la ropa.

RIESGOS AMBIENTALES: Este pesticida es tóxico para peces y organismos acuáticos. No vierta los residuos de este producto en lagos, arroyos, lagunas, estuarios, océanos u otras aguas.

PELIGROS FÍSICOS Y QUÍMICOS: Agentes oxidantes fuertes! Mezcle sólo con agua. No mezcle este producto con otros productos químicos.

ALMACENAMIENTO Y DESECHO No contamine los alimentos por el almacenamiento, desecho o limpieza del equipo.

ALMACENAMIENTO Y DESECHO

No contamine los alimentos por el almacenamiento, desecho o limpieza del equipo.

ALMACENAMIENTO DE PESTICIDAS: Mantenga este producto seco en un envase herméticamente cerrado cuando no esté en uso.

DESECHO DE PESTICIDAS: Los residuos de pesticidas pueden ser peligrosos. El desecho inadecuado de pesticidas sobrantes, enjuague o mezcla de pulverización es una violación de la Ley Federal.

MANEJO DE CONTENEDORES: El contenedor no se puede rellenar. No vuelva a usar ni llenar este contenedor.

GARANTÍA LIMITADA: El fabricante garantiza, por un periodo de 1 año desde la compra, que cuando este producto se almacene y utilice de acuerdo con las instrucciones de la etiqueta, será apto para los fines previstos.

SERVICE BULLETIN

This service bulletin is for Accu-Tab SI Calcium Hypochlorite Tablets
(EPA Reg. No. 748-295)

Accu-Tab SI Calcium Hypochlorite Tablets EPA Reg. No. 748-295 PUBLIC WATER SYSTEMS

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

Public Systems: Mix a ratio of 1 ounce of this product to 6000 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.

New Tanks, Basins: Remove all physical soil from surfaces. Place 4 ounces 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 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 sanitizing the new sand.

Reservoirs - Bacteria control: Contamination of reservoirs is an ever-present possibility. In order to keep reservoir water bacteriologically acceptable, it is necessary to test regularly and chlorinate sufficiently to maintain a residual of 0.2 ppm free available chlorine. This is equivalent to 1.2 ounces of calcium hypochlorite per 30,000 gallons of water after chlorine demand has been satisfied. Where contamination is caused by overflowing streams, establish hypochlorinating stations upstream of the reservoir. Chlorinate the inlet water until the entire reservoir attains a 0.2 ppm available chlorine residual as determined by a chlorine test kit. Where contamination is from surface drainage, apply sufficient calcium hypochlorite directly to the reservoir to attain a 0.2 ppm available chlorine residual in all parts of the reservoir. Daily testing must be accomplished away from the water inlet. If samples must be taken near the inlet, allow them to stand at least 20 minutes before testing. Also, remember that chlorine demand will be higher during periods of heavy rainfall and extreme dryness or heat. Continuous feeding of calcium hypochlorite at the input source is usually the most effective means of maintaining an adequate chlorine residual. When applying calcium hypochlorite to surface water, take care to reach all parts of the reservoir with equal amounts of the product so that distribution is complete and equal throughout.

New and Newly Cleaned Reservoirs: New or recently cleaned reservoirs must be completely disinfected with calcium hypochlorite before use. Spray all parts and surfaces with a 0.5%, 5000 ppm solution (1 ounce calcium hypochlorite to 1 gallon of water). When the reservoir is filled, chlorinate as described above. NOTE: As a safety precaution, do not store calcium hypochlorite solution. When mixed, use immediately.

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 Wells: Flush the casing with a 50 ppm available chlorine solution of water containing 1 ounce 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 must stand for several hours or overnight under chlorination. 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.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
PUBLIC WATER SYSTEMS continued

Existing Equipment: Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 4 ounces of this product for each 5 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 ounce of this product for each 5 gallons of water (approximately 1000 ppm available chlorine). After drying, flush with water and return to service.

Reservoirs/Algae control: Rapid algae growth in reservoirs is an indication of increased chlorine demand. When algae become a problem, special action is necessary. There are several methods of treatment. One of these is to hypochlorinate streams feeding the reservoir. Suitable feeding points must be selected on each stream at least 50 yards upstream from the point of entry into the reservoir. Continuous chlorination is usually effective in destroying algae where a sufficient amount of sanitizer is fed to produce a chlorine residual of 0.2 to 0.5 ppm free available chlorine. Where continuous feeding is not possible, scheduled, intermittent feeding must be practiced. In doing so, broadcast calcium hypochlorite evenly over the surface of the reservoir, taking special care to treat shallows and edges. As it descends, the product dissolves, distributing a chlorinating action to all depths. Introduce a sufficient amount of calcium hypochlorite to provide a residual of from 0.2 to 1.5 ppm for up to 24 hours.

Small Treatment Plants: Calcium hypochlorite may be used as a disinfectant in water treatment plants when the system is too small to use gas chlorination equipment or to supplement well or reservoir chlorination. Please refer to the treatment instructions at the beginning of this section under "Public Systems."

Small Treatment Plants/Algae Control: Treatment plants also rely on calcium hypochlorite to add in algae control. As algae may be the source of many objectionable odors, cause mud balls and slime in filters, pipes and pumps, as well as reduce pipeline capacity, its control through chlorination is an important factor. The presence of algae is often indicated by a slimy, gelatinous film on the inside of pumps, lines and mixers. It may be eliminated by adding a sufficient quantity of calcium hypochlorite to the forebay or pump well to obtain a 5.0 to 10.0 ppm residual chlorine reading after 20 minutes contact time. The dosage necessary to provide this reading will vary with conditions, i.e. hot weather will increase the need for treatment. Algae control must be verified by testing.

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 ounce of this product into 40 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.

Drilled, Driven & Bored Wells: Run pump until water is as free from turbidity as possible. Pour a 100 ppm available chlorine sanitizing solution into the well. This solution can be made by thoroughly mixing 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 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 high water levels may necessitate the use of special methods for introduction of the sanitizer into the well. Consult your local Health Department for further details.

Accu-Tab SI Calcium Hypochlorite Tablets
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PUBLIC WATER SYSTEMS continued

After the initial treatment, feed calcium hypochlorite into the intake line of the well pump. This also helps keep any filters free of slime. Automatic hypochlorinating equipment for this purpose is readily available and easy to use. If it is not possible to locate a feed at the intake line, feed calcium hypochlorite anywhere in the well pump discharge line. Feed sufficient calcium hypochlorite to produce a free chlorine residual of at least 0.2 ppm and no more than 0.6 ppm after a 20-minute contact period. Regular testing is necessary and a record of test readings should be kept.

Flowing Artesian Wells: Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well must be disinfected. Consult your local Health Department for further details. After initial treatment, follow the practice of maintaining a free chlorine residual of 0.2 ppm to 0.6 ppm in the water outlets after a minimum 20-minute contact period as directed previously.

Private Storage Tanks:

Bacteria Control: Contamination of tanks is an ever-present possibility. In order to keep potable tank water bacteriologically acceptable, it is necessary to test regularly and chlorinate sufficiently to maintain a residual of 0.2 ppm free available chlorine. This is equivalent to 0.2 ounces of calcium hypochlorite per 5000 gallons of water after chlorine demand has been satisfied. Where contamination is caused by water supply sources, establish hypochlorinating stations upstream of the tank. Chlorinate the inlet water until the entire tank attains a 0.2 ppm available chlorine residual as determined by a chlorine test kit. Daily testing must be accomplished away from the water inlet. If samples must be taken near the inlet, allow them to stand at least 20 minutes before testing. Also, remember that chlorine demand may be higher during periods of heavy rainfall and extreme dryness or heat. Continuous feeding of calcium hypochlorite at the input source is usually the most effective means of maintaining an adequate chlorine residual. When applying calcium hypochlorite to the water surface in the tank, take care to reach all parts of the tank with equal amounts of the product so that distribution is complete and equal throughout.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
EMERGENCY DISINFECTION

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

When boiling of water for 1 minute is not practical, water can be made potable by using this product. Prior to addition of the sanitizer, 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 grain of this product to 1 gallon of water. One grain is approximately the size of the letter "O" in this sentence. Allow the treated water to stand for 30 minutes. Properly treated water must 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 clean containers for several times.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
EMERGENCY DISINFECTION AFTER FLOODS

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Wells: Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 1 ounce 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 chlorination solution to produce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Re-treat well if water samples are biologically unacceptable.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
EMERGENCY DISINFECTION AFTER FLOODS continued

Reservoirs: In case of contamination by overflowing streams, establish hypochlorinating 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: Thoroughly clean all equipment, then apply 4 ounces of product per 5 cubic feet 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 ounce of this product for each 5 gallons of water (1000 ppm available chlorine). Allow water to stand for 2 to 4 hours, then 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 must be distributed over the surface at the rate of 16 ounces per 20 square feet. Water must stand at a depth of 1 foot above the surface of the filter bed for 4 to 24 hours. When filter beds can be backwashed of mud and silt, apply 16 ounces of this product per each 50 square feet, 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 backwashing.

Distribution system: Flush repaired or replaced section with water. Establish a hypochlorinating station and apply sufficient product until a consistent available chlorine residual of at least 10 ppm remains after a 24-hour retention time. Use a chlorine test kit.

Emergency Disinfection After Fires

Cross connections or emergency connections: Hypochlorination or gravity feed equipment must be set up near the intake of the untreated water supply. Apply sufficient product to give a chlorine residual of at least 0.1 to 0.2 ppm at the point where the untreated supply enters the regular distribution system. Use a chlorine test kit.

Emergency Disinfection After Droughts

Supplementary water supplies: Gravity or mechanical hypochlorite feeders must be set up on a supplementary line to dose the water to a minimum chlorine residual of 0.2 ppm after a 20-minute contact time. Use a chlorine test kit.

Water shipped in by tanks, tank cars, trucks: 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 ounce 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. Use 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 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.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
SEWAGE & WASTEWATER EFFLUENT TREATMENT

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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, to ensure that chlorinated effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction.

On the average, satisfactory disinfection of secondary waste water 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 bacterial kill must be emphasized. The MPN of the effluent, which is directly related to the water quality standards requirements, must be the final and primary standard and the chlorine residual must be considered an operating standard valid only to the extent verified by the coliform quality of the effluent.

The following are critical factors affecting waste water disinfection:

1. **Mixing:** It is imperative that the product and the waste water be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the waste water.
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 effluent must contain 0.2 to 1.0 ppm chlorine residual after a 15 to 30 minute contact time. A reasonable average of residual chlorine is 0.5 ppm after 15 minutes contact time.

Effluent slime control: Apply a 100 to 1000 ppm available chlorine solution at a location which will allow complete mixing. Prepare this solution by mixing 2 to 20 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 0.3 oz. of this product with 100 gallons of water.

Filter Beds – Slime Control: Remove the filter from service, drain it to a depth of 1 foot above the filter sand, and add 16 ounces of this product per 20 square feet 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 the filter.

B.O.D. REDUCTION:

B.O.D., or Biochemical Oxygen Demand, is the quantity of oxygen required to oxidize the polluting substance to a biochemically inert material. As little as 1 ppm of chlorine may bring about a reduction of 2 to 3 ppm in B.O.D. Calcium hypochlorite for this purpose may be added at virtually any point in the system. To achieve maximum results in terms of desirable aerobic action and retardation of anaerobic decomposition, hypochlorination must be complete. The treatment will still be of value, however, even if the amount of calcium hypochlorite applied is less than the total amount which could be utilized.

ODOR CONTROL:

The most offensive odor encountered in sewage treatment is due to hydrogen sulfide. It is caused by the sulphate-splitting bacteria normally present in sewage. Hydrogen sulfide can be very effectively controlled by calcium hypochlorite hypochlorination of the fresh sewage, which destroys the sulfide-producing bacteria. If the treatment of fresh sewage is not practical, calcium hypochlorite may be added at any point where the odors become objectionable. The amount required will, however, be increased, as the available chlorine in calcium hypochlorite will react not only with hydrogen sulfide, but also with other bacteria and organic material. For a sulfide reduction of 1 ppm, from 8 to 10 ppm of available chlorine probably will be required.

Accu-Tab SI Calcium Hypochlorite Tablets
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SEWAGE & WASTEWATER EFFLUENT TREATMENT continued

AID IN FLOCCULATION:

The value of calcium hypochlorite's available chlorine as an aid in flocculation is due primarily to its oxidizing power – a property which is of particular value in sewage treatment because there is almost no oxygen in sewage. Hypochlorination with calcium hypochlorite is particularly helpful when iron salts are used as the primary flocculent. Ferric iron, in the absence of oxygen, tends to revert to ferrous iron, which is of little value as a precipitant. Calcium hypochlorite supplies sufficient oxygen to retard or prevent this change. It must be used just before the primary flocculent in a proportion of 3 to 5 ppm.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
NON-FOOD INDUSTRIAL WATER USES

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COOLING TOWER AND HEAT EXCHANGE SURFACE:

A clogged or fouled system must be mechanically cleaned to remove all physical soil prior to beginning treatment. Initially, treat by adding enough calcium hypochlorite to provide 10 ppm available chlorine (2 ounces per 1000 gallons) as a shock dosage and circulate it thoroughly through the system. Then, for continuous preventive control of algae and slime growth, regularly add enough calcium hypochlorite to the recirculation system to maintain a free chlorine residual between 0.5 and 1.0 ppm. Other water condition factors, such as pH, must be controlled as specified by the equipment manufacturer.

Accu-Tab SI calcium hypochlorite tablets can serve an important role in control of Legionella bacteria in cooling water towers. A concentration of 2 ppm free available chlorine has been shown to be capable of killing free *Legionella pneumophila* bacteria. Legionella bacteria can, however, survive chlorination when shielded inside amoebae, other protozoa or slime, so it is important to have an overall Legionella control strategy that includes controlling the growth of these other organisms and microbial communities and limiting the supply of micronutrients that sustain such microbial growth. Regular chlorination with calcium hypochlorite can help to limit the supply of assimilable organic carbon (AOC) in the water. These specifications are based on best practices from the industry, but are presumptive in nature. Accu-Tab SI calcium hypochlorite tablets have not been tested for effectiveness against Legionnaires Disease Bacteria (LDB). There is no evidence that chemical treatment will control the growth of LDB under actual operating conditions, reduce transmission of LDB, or prevent Legionnaires' Disease.

**COOLING TOWER / EVAPORATIVE CONDENSER WATER;
PULP AND PAPER MILL PROCESS WATER SYSTEMS:**

Slug Feed Method

Initial dose: When system is noticeably fouled, apply 10 to 20 ounces of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Repeat until control is achieved.

Subsequent dose: When microbial control is evident, add 1 to 2 ounces 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 system must be cleaned before treatment is begun.

Intermittent Feed Method

Initial dose: When system is noticeably fouled, apply 10 to 20 ounces 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.

Accu-Tab SI Calcium Hypochlorite Tablets
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NON-FOOD INDUSTRIAL WATER USES continued

Subsequent dose: When microbial control is evident, add 1 to 2 ounces 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 system must be cleaned before treatment is begun.

Continuous Feed Method

Initial dose: When system is noticeably fouled, apply 2 to 4 tablets (10 to 20 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 using a tablet hypochlorinator. To dose use 1 tablet of this product (5 oz.) per 15,000 gallons of water lost by blowdown to maintain a 1 PPM residual. Badly fouled system must be cleaned before treatment is begun.

Briquettes or Tablets

Initial dose: Initially slug dose the system with 10 ounces of this product per 10,000 gallons of water in the system. Badly fouled system must be cleaned before treatment is begun.

Subsequent dose: When microbial control is evident, add 1 to 2 ounces 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 system must be cleaned before treatment is begun.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
NON-FOOD INDUSTRIAL WATER USES, INSTITUTIONAL, COMMERCIAL, AND HOME USES
FOOD CONTACT-SANITIZATION - SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

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

RINSE METHOD

A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to ensure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 1 ounce of this product with 40 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 1 ounce of this product with 20 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment and do not soak equipment overnight. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

IMMERSION METHOD

A solution of 100 ppm available chlorine may be used in the sanitizing solution if a chlorine test kit is available. Solutions containing an initial concentration of 100 ppm available chlorine must be tested and adjusted periodically to ensure that the available chlorine does not drop below 50 ppm. Prepare a 100 ppm sanitizing solution by thoroughly mixing 1 ounce of this product with 40 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 1 ounce of this product with 20 gallons of water to provide approximately 200 ppm available chlorine by weight. 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. If solution contains less than 50 ppm available chlorine, as determined by a suitable test kit, either discard the solution or add sufficient product to reestablish a 200 ppm residual. Do not rinse equipment with water after treatment and do not soak equipment overnight. Sanitizers used in automated systems may be used for general cleaning but may not be reused for sanitizing purposes.

FLOW/PRESSURE METHOD

Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 1 ounce product with 20 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 2 minutes to ensure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine.

CLEAN-IN-PLACE METHOD

Thoroughly clean equipment after use. Assemble equipment in operating position prior to use. Prepare a volume of a 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 1 ounce product with 20 gallons of water. Pump solution through the system until full flow is obtained at all extremities, the system is completely filled with the sanitizer and all air is removed from the system. Close drain valves and hold under pressure for at least 10 minutes to ensure contact with all internal surfaces. Remove some cleaning solution from drain valve and test with a chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine.

Accu-Tab SI Calcium Hypochlorite Tablets
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NON-FOOD INDUSTRIAL WATER USES, INSTITUTIONAL, COMMERCIAL, AND HOME USES
FOOD CONTACT-SANITIZATION - SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES continued

SPRAY/FOG METHOD

Preclean 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 1 ounce product with 20 gallons of water. Prepare a 600 ppm solution by thoroughly mixing the product in a ratio of 3 ounces product with 20 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.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
FOOD CONTACT-SANITIZATION SANITIZATION OF POROUS FOOD CONTACT SURFACES

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

RINSE METHOD - Prepare a 600 ppm solution by thoroughly mixing 3 ounces of this product with 20 gallons of water. Clean surfaces in the normal manner. Rinse all surfaces thoroughly with the 600 ppm solution, maintaining contact for at least 2 minutes. Prepare a 200 ppm sanitizing solution by thoroughly mixing 1 ounce of this product with 20 gallons of water. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Do not rinse and do not soak equipment overnight.

IMMERSION METHOD - Prepare a 600 ppm solution by thoroughly mixing, in an immersion tank, 3 ounces of this product with 20 gallons of water. Clean equipment in the normal manner. Prepare a 200 ppm sanitizing solution by thoroughly mixing 2 ounces of this product with 10 gallons of water. Prior to using, immerse equipment in the 200 ppm sanitizing solution for at least 2 minutes and allow the sanitizer to drain. Do not rinse and do not soak equipment overnight.

SPRAY/FOG METHOD - Preclean all surfaces after use. Prepare a 600 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 3 ounces product with 20 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 1 ounce of this product with 20 gallons of water.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
NON-FOOD CONTACT-SANITIZATION
SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES

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

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 1 ounce of this product with 20 gallons of water to provide approximately 200 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. 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.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 1 ounce of this product with 20 gallons of water to provide approximately 200 ppm available chlorine by weight. 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.

SPRAY/FOG METHOD - Preclean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 1 ounce product with 20 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
NON-FOOD CONTACT-SANITIZATION
SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES

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

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 3 ounces of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. 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.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 3 ounces of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. 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.

SPRAY/FOG METHOD - After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine by thoroughly mixing the product in a ratio of 3 ounces of this product with 20 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. Prior to using equipment, thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
FOOD CONTACT - DISINFECTION
DISINFECTION OF POROUS NON-FOOD CONTACT SURFACES

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

RINSE METHOD - Prepare a disinfecting solution by thoroughly mixing 3 ounces of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment surfaces in the normal manner. Prior to use, rinse all surfaces thoroughly with the disinfecting solution, maintaining contact with the solution for at least 10 minutes. Do not rinse equipment with water after treatment and do not soak equipment overnight.

IMMERSION METHOD - Prepare a disinfecting solution by thoroughly mixing, in an immersion tank, 3 ounces of this product with 20 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean equipment in the normal manner. Prior to use, immerse equipment in the disinfecting solution for at least 10 minutes and allow the solution to drain. Do not rinse equipment with water after treatment.

CONTROLLING MOLD OR MILDEW:

Calcium hypochlorite solutions containing 5000 ppm available chlorine will destroy mold and nonresidual mildew that grow in storage rooms and other areas within 10 to 15 minutes contact time. Brush or spray all precleaned walls, floors, ceilings and shelves with the solution. Rinse all metal surfaces immediately after treatment to prevent corrosion.

BATHROOMS:

Calcium hypochlorite solutions containing 5000 ppm available chlorine will sanitize and deodorize toilets, shower rooms, urinals, drains and other bathroom facilities. Toilets, shower rooms, urinals and drains must be cleaned and sprayed or flushed with the calcium hypochlorite solution on a regular basis. After treatment, let stand 10 minutes and rinse exposed metal surfaces with potable water to prevent corrosion. For toilet bowls, add 1 tablespoon of dry calcium hypochlorite to the residual water and swab.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
SANITIZING DIALYSIS MACHINES

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

Flush dialysis equipment thoroughly with water prior to sanitizing. Thoroughly dissolve 7 ounces of this product in 60 gallons of water to obtain at least a 600 ppm available chlorine solution. Use this solution in the hemodialysate system immediately allowing a minimum contact time of 15 minutes at 20 degrees C. Thereafter, drain the system of the sanitizing solution and thoroughly rinse with potable water. Discard and do not reuse the spent sanitizer. Rinsate must be monitored with a suitable test kit to ensure that no available chlorine remains in the system. This product is specified for decontaminating single and multipatient hemodialysate systems. This product has been shown to be an effective disinfectant (virucide, fungicide, bactericide, pseudomonicide) when tested by AOAC and EPA test methods. This product may not totally eliminate all vegetative microorganisms in hemodialysate delivery systems due to their construction and/or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. This product must be used in a disinfectant program that includes bacteriological monitoring of the hemodialysate delivery system. This product is not specified for use in hemodialysate or reverse osmosis (RO) membranes. Consult the guidelines for hemodialysate systems that are available from the Hepatitis Laboratories, CDC, Phoenix, AZ 85021.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
ASPHALT OR SEALED WOOD ROOFS AND SIDINGS

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

To control fungus and mildew, first remove all physical soil by brushing and hosing with clean water, and apply a 5000 ppm available chlorine solution. Mix 1 ounce of this product per gallon of water and brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
LAUNDRY SANITIZER

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

HOUSEHOLD LAUNDRY SANITIZERS

In Soaking Suds – thoroughly mix 1 tablespoon of this product to 10 gallons of wash water to provide 200 ppm available chlorine. Wait 5 minutes; then add soap or detergent. Immerse laundry for at least 11 minutes prior to starting the wash/rinse cycle.

In Washing Suds – thoroughly mix 1 tablespoon of this product to 10 gallons of wash water containing clothes to provide 200 ppm available chlorine. Wait 5 minutes; then add soap or detergent and start the wash/rinse cycle.

COMMERCIAL LAUNDRY SANITIZERS

Wet fabrics or clothes must be spun dry prior to sanitization. Thoroughly mix 1 ounce of this product with 20 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.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
SPAS, HOT-TUBS, IMMERSION TANKS

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

Spas / Hot-tubs: Apply 0.5 ounces of product per 500 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 and cleaners may cause foaming or cloudy water as well as reduce the efficiency of the product. To maintain the water, apply 0.5 ounces of product per 500 gallons of water over the surface to maintain a chlorine concentration of 5 ppm. After each use, shock treat with 1.5 ounces of this product per 500 gallons of water to control odor and algae. During extended period of disuse, add 1.5 ounces of product daily per 500 gallons of water to maintain a 3 ppm chlorine concentration.

Hubbard and Immersion Tanks (not for use in California): Add 0.5 ounces of this product per 100 gallons of water before patient use to obtain a chlorine residual of 25 ppm, as determined by a suitable test kit. Adjust and maintain the water pH to between 7.2 and 7.6. After each use drain the tank. Add 0.5 ounces 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 tank thoroughly and dry with clean cloths.

Hydrotherapy Tanks: Add 1 ounce of this product per 1000 gallons of water to obtain a chlorine residual of 1 ppm, as determined by a suitable chlorine test kit. Pool must not be entered until the chlorine residual is below 3 ppm. Adjust and maintain the water pH to between 7.2 and 7.6. Operate pool filter continuously. Drain pool weekly, and clean before refilling.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
BEVERAGE PLANTS

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

BREWERIES

Calcium Hypochlorite solutions enable breweries to prevent bacterial growth and assure the purity and fresh taste of their products on a continuing basis. As a general sanitizer, calcium hypochlorite is doubly effective because of its dissolving action on beer stone, proteins, slime, yeast and other matter commonly found in brewery lines, tanks and hoses. To prepare a stock cleaning and sanitizing solution, add 5 pounds of calcium hypochlorite to 3 gallons of warm water in a 20-gallon container. Introduce 3 pounds of soda ash and stir until dissolved. Dilute this mixture with cold water to make 15 gallons of solution, then add 5 pounds of Axiall Pels® Caustic Soda Beads by following directions of that product. Stir to dissolve and allow to stand. When diluted 1-to-10 with water, this solution is an excellent cleaner/sanitizer for piping and equipment, steel, glazed tile and concrete vats.

Fermenting Tubs-Cyprus: Clean and rinse the tub thoroughly to remove all traces of oil, then fill with 200 ppm available chlorine solution to sanitize. Allow to stand 10-12 hours.

Washing Equipment: Sanitize the washing equipment by first thoroughly cleaning, then flushing all surfaces with calcium hypochlorite solution containing 200 ppm available chlorine.

Malting Areas: Floors and walls around malt tanks must be thoroughly washed once a week to prevent mold formation and odor. After cleaning, flush both floors and walls with a solution containing 0.25% (2500 ppm) available chlorine.

Aging Cellars: Spray the concrete walls of aging cellars regularly with a calcium hypochlorite solution of 0.5% (5000 ppm) available chlorine to destroy existing mold and mildew and prevent odor.

Pasteurizers: Slime and odors that develop in pocket-type pasteurizers can be controlled with regular use of a 1% (10000 ppm) available chlorine solution fed into the pasteurizer water supply by a hypochlorinator. A feed rate which provides a dosage of 0.5 to 1.0 ppm available chlorine at the overflow is required for optimum results. After draining and cleaning pasteurizers, the hypochlorinator must be used to provide fresh refill water with the proper chlorine residual.

Grain Steep Tanks: Calcium hypochlorite is a highly effective sanitizer in controlling mold growth in humid malt house conditions. Steep tanks must be cleaned first, then sprayed with a 1.5 to 2.0% (15000 to 20000 ppm) available chlorine solution. Allow to stand 30 minutes. The walls of concrete germination compartments must also be cleaned and treated as above. The perforated metal floors of germination compartments must be sprayed with high-pressure water for thorough cleaning and then covered at a rate of 0.15 oz. of dry calcium hypochlorite per square foot of wet floor. (A clean, dry, uncontaminated broadcaster or spreading device may be used effectively.) Allow the coating to stand for 30 minutes; rinse thoroughly with potable water before putting equipment in service.

Water Supplies: **Calcium hypochlorite solutions containing 1% (10000 ppm) available chlorine will properly sanitize plant water used to produce beer. The calcium hypochlorite solution must be introduced into the water supply by a hypochlorinator. An available chlorine residual of 0.2 to 0.6 ppm must be maintained throughout the system at all times. Be sure to dechlorinate the water before it is used to process beer.**

Accu-Tab SI Calcium Hypochlorite Tablets
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CARBONATED BEVERAGE PLANTS

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

Water Supplies: Available plant water supplies used to produce carbonated beverages may be properly sanitized by introducing solution of 1% (10000 ppm) available chlorine. The solution must be introduced by a hypochlorinator and adjusted to supply an available chlorine residual of 0.2 to 0.6 ppm at all times. Be sure to dechlorinate the water before it is used to process beverages.

Manufacturing Equipment: The use of calcium hypochlorite is a reliable and economical way to sanitize equipment and control the quality and taste of carbonated beverages. Before bottling operations start up, feed a 200 ppm available chlorine solution through all pumps, lines and fillers to eliminate bacteria. Clean surfaces before treatment. After each bottling operation, thoroughly spray syrup tanks with 200 ppm available chlorine solution, and let stand for 30 minutes.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
CIDER PLANTS

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

Even when stored under cold conditions, sweet cider is particularly susceptible to fungus growth, which causes spoilage. As a preventive, sanitize each cask for a period of two minutes with a 200 ppm available chlorine solution, before use. Clean thoroughly first, then rinse each cask with the solution.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
WINERIES

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

Plant Sanitation: Calcium hypochlorite will sanitize and prevent contamination in wineries to ensure product quality. Following each run, clean the entire plant area and its equipment. Immediately before the next run, sanitize with calcium hypochlorite as follows: Rinse nonporous wall surfaces, floors and equipment with a calcium hypochlorite solution containing 500 ppm available chlorine. Let stand for 10 minutes. Porous surfaces (wood, concrete) must be scrubbed or sprayed with a 1000 ppm available chlorine solution. Let stand 10 minutes. Storage vessels, fermenting vats, casks, presses and grape crushers must be cleaned of physical soil thoroughly before treatment. Rinse or spray with calcium hypochlorite solution containing 200 ppm available chlorine. Let stand 10 minutes.

Mold Control: Mold growth must be treated on discovery with calcium hypochlorite to prevent further spreading. Spray the affected surfaces with a calcium hypochlorite solution providing 0.5% (5000 ppm) available chlorine. Heavy growth may require scrubbing and/or repeated applications.

Storage And Filling Tanks: Disinfect storage and filling tanks with calcium hypochlorite to maintain a high level of product quality. After a run and before refilling tanks, they must be thoroughly disinfected with calcium hypochlorite. For wooden or nonporous tanks, first pre-clean then fill with calcium hypochlorite solutions containing 600 ppm available chlorine. Solutions must stand for at least 10 minutes. Then, rinse tanks with potable water for a period of 2 minutes immediately before refilling. Unused tanks and vats must be kept sanitized with calcium hypochlorite. Fill each with water and dry calcium hypochlorite to obtain a residual of approximately 15 ppm available chlorine. Test every week and repeat treatment if residual falls below 2 ppm.

Press Cloths: Press cloths contaminated with bacteria or organic matter must be treated with calcium hypochlorite solutions to neutralize microorganisms and prevent spreading. After use, wash cloths thoroughly, then soak as follows: For every 100 pounds dry weight of the cloth, add 2 oz. dry calcium hypochlorite to 60 gallons of water. Soak for 15 minutes.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
GRAPE JUICE PLANTS

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

Sanitize equipment and problem areas of grape juice plants using the same treatment procedures specified for wineries.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
FOOD PROCESSING PLANTS

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

CANNERIES

Hot, freshly-packed cans are often cooled by immersion in cold water. This creates a partial vacuum in the container which may allow the cooling water to enter through seams or pin holes. If bacteria are present in the water, contents may become contaminated and spoil. Calcium hypochlorite solutions providing 1% (10000 ppm) available chlorine must be fed into cooling tanks or channels by an elevated tank to provide a concentration of 2 ppm available chlorine. The flow may be controlled with a non-corroding valve or a pinch-stop on a rubber hose. Feed points must be located to provide uniform distribution of solution throughout the entire system. Long and narrow tanks may require the solution to be fed at two points to ensure proper distribution. Test the cooling water for available chlorine. If a residual of 2 ppm is present throughout the system, the water is properly sanitized. Test for available chlorine every hour until dosage requirements are established. Thereafter, check every 2 or 3 hours to ascertain that an available chlorine residual of 2 ppm is maintained throughout the cooling system.

Water Supplies: One percent chlorine solutions will effectively purify the water supply in canneries. Feed the solution into the water supply by a hypochlorinator on the intake side of the pump. An available chlorine residual of 0.2 to 0.6 ppm must be maintained throughout the water distribution system to assure adequate purification. Regular testing must be initiated to assure proper chlorine residuals are present at all times.

Wastes: Solutions containing 1000 ppm available chlorine control odors from dry food waste disposed in dumps or collecting points. Accumulations of waste must be sprayed or soaked with calcium hypochlorite solution daily to eliminate odors. Calcium hypochlorite solutions applied by continuous treatment to maintain a residual of 15 to 25 ppm will control odors in food waste being removed by water suspension.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295

DAIRY INDUSTRIES (Creameries, Ice Cream Factories, Cheese Factories, and Milk Plants)

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

Calcium hypochlorite solutions provide an effective, economical method of sanitizing processing equipment and problem areas in creameries, ice cream factories, cheese factories and milk plants. To prevent contamination of the product, apply calcium hypochlorite solutions to every surface the product will touch.

Pressure Sanitizing Equipment: Pressure is commonly used to sanitize closed systems, such as fluid milk cooling and handling equipment. The pressure method is also appropriate for sanitizing weight tanks, coolers, short-time pasteurizers, pumps, homogenizers, fillers, sanitary piping and fittings, and bottle and can fillers. Immediately after use, clean all equipment thoroughly, then place back in operating position. Prepare a sufficient amount of a calcium hypochlorite solution containing 200 ppm available chlorine to fill the equipment. (Allow a 10% excess for waste.) Pump the calcium hypochlorite solution through the system until it is filled and air is excluded. Close final drain valves and hold the system under pressure for 2 minutes to ensure proper contact with all surfaces. Drain the solution.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295

DAIRY INDUSTRIES (Creameries, Ice Cream Factories, Cheese Factories, and Milk Plants) **continued**

Spray Sanitizing Equipment: A spray (or fog) method is generally used to sanitize large, nonporous surfaces which have been freed of physical soil and thoroughly cleaned. It is appropriate for batch pasteurizers, holding tanks, weigh tanks, tank trucks and cars, vats, tile walls, ceilings and floors. Prepare a solution containing 200 ppm available chlorine. Use pressure spraying or fogging equipment designed to resist hypochlorite solutions (rubber-coated, plastic or stainless steel). When using other types of spraying equipment, empty and rinse thoroughly with fresh water immediately following treatment. Heavily spray or fog all surfaces the product will contact. All surfaces, corners and turns must be thoroughly coated. Allow excess solution to drain off, then place in service.

Water Supplies: Calcium hypochlorite solutions containing 1% (10000 ppm) available chlorine will disinfect water supplies used in the production of dairy products. The solution must be prepared using the following procedure: Mix 3.75 pounds of calcium hypochlorite into a 30-gallon plastic container 1/3 full of warm water. Add 3 pounds of light soda ash, stir thoroughly and dilute to 30 gallons. Add this solution to the water supply and let stand 20 minutes. The water supply has been sanitized when a 0.2 ppm of available chlorine is present.

General Sanitizing: Sanitize plant floors, walls and ceilings, and control odors in refrigerated areas and on drain platforms with a 1000 ppm calcium hypochlorite solution. Flush or swab surfaces generously with solution. Allow to stand 2 minutes.

Controlling Mold and Mildew: Control mold and nonresidual mildew that often grows in cheese aging rooms, storage rooms and other areas with a calcium hypochlorite solution of 5000 ppm available chlorine. Brush or spray all precleaned walls, floors, ceilings and shelves with the solution. Then, rinse all metal surfaces immediately to prevent corrosion.

Wastes: Calcium hypochlorite solutions containing 15 to 25 ppm available chlorine provide odor control of dairy plant waste. An overflow-type retention basin, flume or outfall of sufficient length is necessary to provide required contact time and mixing. For continuous treatment, calcium hypochlorite is introduced by a hypochlorinator capable of feeding the solution in proportion to waste flow. The hypochlorinator must be located near the point where waste leaves the plant building, followed by baffles for agitation. Batch waste must be impounded and treated with calcium hypochlorite solution which provides a residual of 15 to 25 ppm available chlorine.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295

MEAT AND POULTRY PLANTS

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

For use in federally inspected meat and poultry plants.

Chlorinating potable water treatment compounds.

Chlorine may be present in processing water of meat and poultry plants at concentrations up to 5 parts per million calculated as available chlorine. Also, chlorine may be present in poultry chiller intake water, and in carcass wash water at concentrations up to 50 parts per million calculated as available chlorine. Chlorine must be dispensed at a constant and uniform level and the method or system must be such that a controlled rate is maintained.

Cooling and retort water treatment compounds.

This product may be added to water used to heat and cool containers of meat and poultry products to prevent staining of containers and to control corrosion and deposit formation on surfaces of processing equipment. The amount used must be the minimum sufficient for the purpose.

Calcium hypochlorite solutions providing 1% (10000 ppm) available chlorine must be fed into tanks or channels by an elevated tank to provide a concentration of 2 ppm available chlorine. The flow may be controlled with a noncorroding valve or a pinch-stop on a rubber hose.

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MEAT AND POULTRY PLANTS continued

Feed points must be located to provide uniform distribution of solution throughout the entire system. Long and narrow tanks may require the solution to be fed at two points to ensure proper distribution.

Test the water for available chlorine. If a residual of 2 ppm is present throughout the system, the water is properly sanitized.

Test for available chlorine every hour until dosage requirements are established. Thereafter, check every 2 or 3 hours to ascertain that an available chlorine residual of 2 ppm is maintained throughout the system.

This product may be used for treating boilers, steam lines, and/or cooling systems where neither the treated water nor the steam produced may contact edible products. This does not include treated water used to heat and cool containers of meat and poultry products.

A clogged or fouled system must be mechanically cleaned to remove all physical soil prior to beginning treatment. Initially, treat by adding enough calcium hypochlorite to provide 10 ppm available chlorine (2 ounces per 1000 gallons) as a shock dosage and circulate it thoroughly through the system.

Then, for continuous preventative control of algae and slime growth, regularly add enough calcium hypochlorite to the recirculation system to maintain a 1.0 ppm free chlorine residual.

Other water condition factors, such as pH, must be controlled as specified by the equipment manufacturer.

Sanitization, Disinfection and Odor Control:

An effective general sanitizer or disinfectant, calcium hypochlorite solutions also provide odor control in meat processing plants.

Killing Rooms: Disinfect the entire killing room with calcium hypochlorite solution to prevent the contamination of meat and the development of offensive odors. Scrub all walls and floors completely. Spray thoroughly with a solution containing 5000 ppm available chlorine. Drains and traps through which blood passes must be flushed thoroughly with water and flushed with solution containing 5000 ppm available chlorine. Allow this solution to stand overnight, then flush.

Inedible Rooms: Solutions containing 1000 ppm available chlorine will properly disinfect inedible rooms, prevent odors and improve the handling qualities of hides and other marketable items. Thoroughly clean inedible rooms on a regular basis. After cleaning, spray the tank house, the press rooms and the hide rooms generously with the calcium hypochlorite solution.

Edible Rooms: Calcium hypochlorite solutions containing 1000 ppm available chlorine will disinfect and control bacteria in refrigerating, curing, and processing areas to prevent taste and color problems in products. Thoroughly clean all edible rooms on a regular basis. After cleaning, room surfaces and equipment must be sprayed well with 1000 ppm solution for 10 minutes. Rinse with 200 ppm available chlorine solution for a period of 2 minutes.

Equipment and Utensils: To prevent contamination, sanitize all equipment and utensils that came in contact with meat with a solution containing 200 ppm available chlorine. Clean equipment and utensils thoroughly, removing all fat and grease. Spray or rinse with solution. Let stand 2 minutes.

Locker Rooms, Elevator Pits and Toilets: Disinfect and deodorize locker rooms, elevator pits and toilets with a calcium hypochlorite solution containing 5000 ppm available chlorine. Locker rooms, shower rooms, toilets, urinals and drains must be cleaned, then sprayed or flushed with the solution on a regular basis. After treatment, let stand 10 minutes, then rinse exposed surfaces with potable water to prevent corrosion. Add 1 level tablespoon of calcium hypochlorite to the residual water of toilet bowls and swab.

Accu-Tab SI Calcium Hypochlorite Tablets
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FOOD PROCESSING/PACKING

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

Fruit & Vegetable Washing: Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 1 ounce of this product in 200 gallons of water to make a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for two minutes in a second wash tank containing the recirculating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging.

Commodity Fruit & Vegetable Treatment: Wash fruit and vegetables to remove organic matter; then treat as noted below.

Specified Levels and Use Dilutions for Available Chlorine
(This table is for 68% - 73% nominal available chlorine products)

Commodity	Usage Dilution dry oz. added to 250 gal. of water	(ppm) Available Chlorine	Contact Time
Apple	7.7 - 10.3	150 - 200	45-90 sec.(dump tank) 5-15 sec. (spray)
Artichoke	5.1 - 7.7	100 - 150	5-15 sec. (spray)
Asparagus	6.4 - 7.7	125 - 150	5-15 sec. (spray) 20-30 min.(hydrocooler)
Brussels Sprouts	5.1 - 7.7	100 - 150	5-15 sec. (spray)
Carrots	5.1 - 10.3	100 - 200	1-5 min. (dump tank) 1-5 min. (flume)
Cauliflower	15.4 - 20.5	300 - 400	5-15 sec. (spray)
Celery	5.1 - 5.7	100 - 110	5-15 sec. (spray)
Cherry	3.9 - 5.1	75 - 100	5-15 sec. (spray)
Chopped Cabbage ¹	4.1 - 5.1	80 - 100	5-15 sec. (spray)
Chopped Lettuce ¹	4.1 - 5.1	80 - 100	5-15 sec. (spray)
Citrus Fruits	1.3 - 10.3	40 - 75 30 - 50 100 - 200	5-15 sec. (spray) 2-3 min. (dump tank) 3-5 min. (drench)
Cucumbers	15.4 - 18.0	300 - 350	5-15 sec. (spray)
Green Onions	3.9 - 6.2	75 - 120	5-15 sec. (spray)
Melons	5.1 - 7.7	100 - 150 30 - 75	5-15 sec. (spray) 20-30 min.(hydrocooler)
Peaches, Nectarines and Plums	2.6 - 5.1	50 - 100	5-15 sec. (spray)
Pears (without buffer)	10.3 - 15.4	200 - 300	2-3 min. (dump tank)
Peppers	15.4 - 20.5 5.1 - 6.9	300 - 400 100 - 135	5-15 sec. (spray) 2-5 min. (dump tank)
Potatoes	3.3 - 6.4	65 - 125	2-5 min.(dump tank)(30- 100ppm) 2-5 min. (flume)(200-300ppm) 5-30 sec.(spray)(100-200ppm)
Radishes	5.1 - 7.7	100 - 150	5-15 sec. (spray)
Stone fruit	1.5 - 3.9	30 - 75	20-30 min. (hydrocooler)
Tomatoes	15.4 - 18.0	300 - 350	2-3 min (tank)(200-350 ppm) 5-15 sec.(spray)(100-150ppm)
Spinach	4.1-5.1	80-100	5-15 sec. (spray)
Broccoli	15.4-20.5	300-400	5-15 sec. (spray)
Pecans	50	1000	10 minutes

¹After treatment the adhering water must be removed by a centrifugation process.

Accu-Tab SI Calcium Hypochlorite Tablets
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FOOD PROCESSING/PACKING continued

Pecan Cracking And Bleaching: Prepare a 1000 ppm available chlorine soaking solution by adding 1 ounce of this product for each 5 gallons of water to obtain a 1000 ppm available chlorine content. Soak for a minimum of 10 minutes. After removal, age pecans for 24 hours. Before bleaching, pecans are placed in a rotary cleaner where they are washed, drained, and soaked in a 2% sulfuric acid bath at 80 to 90 degrees F for one minute. Transfer to a solution containing 107 ounces of this product for each 100 gallons of water (5000 ppm). After 4 to 8 minutes, they are drained and washed in a 1% sulfuric acid bath at 80 to 90°F. They are then dried.

Shell Egg Cleaning

Wash eggs promptly after gathering. Water with an iron content in excess of 2 ppm shall not be used unless equipment capable of removing the excess iron is installed on the water system. Wash water temperature must be 90°F or higher. Maintain the wash water at a temperature which is at least 20°F warmer than the temperature of the eggs to be washed. Spray rinse washed eggs with warm potable water containing an approved sanitizing compound. Eggs must be reasonably dry before casing or breaking.

Shell Egg Destainers

The destainer solution must be at least 20°F warmer than the eggs with a minimum solution temperature of 90°F. Total elapsed time in the destainer solution may not exceed 5 minutes. Eggs are to be rewashed and spray rinsed after destaining. Destainer solution must be replaced daily or whenever it becomes dirty. Destaining is to be done after initial washing has been completed. It is recommended that all eggs be shell protected after they have been destained.

Food Egg Sanitization: Thoroughly clean all eggs. Thoroughly mix 0.8 ounce of this product with 20 gallons of warm water to product a 200 ppm available chlorine solution. The sanitizer temperature must not exceed 130°F. Spray the warm sanitizer so that the eggs are thoroughly wetted. Allow the eggs to thoroughly dry before casing or breaking. Do not apply a potable water rinse. The solutions must not be reused to sanitize eggs.

Accu-Tab SI Calcium Hypochlorite Tablets
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AQUACULTURAL USES

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

Fish Ponds: Remove all fish from ponds prior to treatment. Thereafter, thoroughly mix 20 ounces of this product for each 10,000 gallons of pond water to obtain 10 ppm available chlorine. Repeat the treatment if the available chlorine level is below 1 ppm after 5 minutes. Return fish to the pond after the available chlorine level reaches zero.

Fish Pond Equipment: Thoroughly clean all equipment prior to treatment. Thoroughly mix 0.8 ounce of this product to 20 gallons of water to obtain 200 ppm available chlorine. Porous equipment must soak for one hour.

Maine Lobster Equipment: Remove lobster and seaweed from ponds prior to treatment. Drain the pond and thoroughly mix 1200 ounces (77 pounds) of this product to each 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all barrows, gates, rocks and dam are treated with the product. Permit high tide to fill the pond and then close gates. Allow water to stand 2 to 3 days until the available chlorine level reaches zero. Open the gates and allow two tidal cycles to flush the pond before returning lobsters to the pond.

Conditioning Live Oysters (Not for Use in California): Thoroughly mix 1 ounce of this product to 10,000 gallons of water at 50 to 70°F to obtain 0.5 ppm available chlorine. Expose the oysters to this solution for at least 15 minutes, monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat the entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50°F.

Accu-Tab SI Calcium Hypochlorite Tablets
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AQUACULTURAL USES continued

Control of Scavengers in Fish Hatchery Ponds: Prepare a solution containing 200 ppm of available chlorine by mixing 0.4 ounces of product with 10 gallons of water. Pour into drained pond potholes and repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to zero ppm, as determined by a test kit.

Boat Bottoms (Not for Use in California):

Boat Hulls: To control slime on boat hulls, sling a plastic tarp under the boat, retaining enough water to cover the fouled bottom area. Do not allow additional water to entire enclosed area. This envelope must contain approximately 500 gallons of water for a 14 foot boat. Add 3.5 ounces of this product to the enclosed water to obtain a 35 ppm available chlorine concentration. Leave immersed for 8 to 12 hours. Repeat if necessary. Do not discharge the solution until the free chlorine level has dropped to 0 ppm, as determined by a test kit.

Artificial Sand Beaches:

To sanitize the sand, spray a 500 ppm available chlorine solution containing 0.1 ounce of this product per gallon of water at frequent intervals. Small areas can be sprinkled with a watering can.

Accu-Tab SI Calcium Hypochlorite Tablets
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AGRICULTURAL USES

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

FARM PREMISES

Farm Premises - Remove all animals, poultry, and feed from premises, vehicles, and enclosures, vehicles. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes, and other facilities occupied or traversed by animals or poultry. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. To disinfect, saturate all surfaces with a solution of at least 1000 ppm available chlorine for a period of 10 minutes. A 1000 ppm solution can be made by thoroughly mixing 2 ounces of this product with 10 gallons of water. Immerse all halters, ropes, and other equipment used in handling and restraining animals or poultry, as well as the cleaned forks, shovels and scrapers used for removing litter and manure. Ventilate the buildings, cars, boats and other closed spaces. Do not house livestock or poultry or employ equipment until chlorine has been dissipated. All treated feed racks, mangers, troughs, automatic feeders, fountains and waterers must be rinsed with potable water before reuse.

POULTRY PLANTS

Poultry Drinking Water: Spray or flush with a solution containing 1 ounce of this product for every gallon of water (5000 ppm). Treat poultry drinking water to a dosage of 1 to 5 ppm available chlorine by adding 0.2 to 1 ounces of this product per 1000 gallons of water.

HARVESTED POTATOES/SWEET POTATOES

Post-Harvest Protection – Harvested Potatoes: Potatoes can be sanitized after cleaning and prior to storage by spraying with a sanitizing solution at a level of 1 gallon of sanitizing solution per tons of potatoes. Thoroughly mix 1 ounce of this product to 10 gallons of water to obtain 500 ppm available chlorine.

Post-Harvest Roots – Harvested Sweet Potatoes: To control and reduce the spread of soft rot-causing organisms in water and on sweet potatoes (*Ipomoea batatas*), spray or dip the potatoes with a 150 to 500 ppm solution for 2 to 5 minutes. Thoroughly mix 0.3 to 1 ounces of this product per 10 gallons of water to obtain this solution. Monitor the chlorine concentration and change the solution after one hour or as needed.

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AGRICULTURAL USES continued

BEE CELLS AND BOARDS

Disinfect leaf cutting bee cells and bee boards by immersion in a solution containing 1 ppm available chlorine for 3 minutes. Allow cells to drain for 2 minutes and dry for 4 to 5 hours, or until no chlorine odor can be detected. This solution is made by thoroughly mixing ¼ teaspoon of this product to 200 gallons of water. Bee domiciles are disinfected by spraying with a 0.1 ppm solution until all surfaces are thoroughly wet. Allow the domicile to dry until all chlorine odor has dissipated.

MUSHROOMS

To control bacterial blotch (*Pseudomonas toloasi*), apply a 100 to 200 ppm solution prior to watering mushroom production surfaces. This solution may be made by mixing 0.2 to 0.4 ounces of this product with 10 gallons of water. First application must begin when pins form, and thereafter between breaks on a need basis depending on the occurrence of bacterial blotch. This product may be applied directly to pins to control small infection foci. Apply 1.5 to 2.0 ounces per square foot of growing space.

SEEDS

Seeds (for planting): To control bacterial spot (*Xanthomonas vesticatoris*) on pimentos seeds, initially remove moist seeds from ripe fruits. To control surface fungi and bacteria on tomato seeds, initially wash seeds. Immediately soak seeds in 39,000 ppm solution for 15 minutes with continuous agitation. After treatment, rinse seeds in potable water for 15 minutes. Dry seeds to normal moisture. Make this solution by mixing 8 ounces of this product with 1 gallon of water.

Accu-Tab SI Calcium Hypochlorite Tablets
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SEEDS FOR SPROUTING AS FOOD FOR HUMAN CONSUMPTION

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

DIRECTIONS FOR USE: It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the areas during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

AGRICULTURAL USE REQUIREMENTS:

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirement for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Workers Protection Standard.

Do not enter or allow worker entry into treated areas during the Restricted-Entry Interval (REI) of 12 hours.

There are no posting or notification requirements when using this product.

Personal Protective Equipment (PPE) must be worn as described under the "Precautionary Statements" section of this label.

While this treatment may reduce populations of bacteria on seeds intended for sprout production, it may not eliminate these organisms on the seeds. Additionally, treatment may not reduce or eliminate these organisms on the final sprouts.

Dosage: In a well-ventilated area, prepare a 2% calcium hypochlorite solution (20,000 ppm available chlorine) by dissolving 4.1 ounces of 68% nominal product into 1 gallon of potable water. Below is a table for preparing various amounts of 68% nominal product treatment solutions.

Available Chlorine		Gallons of Water					
%	ppm	1	5	15	30	50	100
2.0	20,000	4.1 ozs.	1 lb. 5 ozs.	3 lbs. 13 ozs.	7 lbs. 11 ozs.	12 lbs. 13 ozs.	25 lbs. 10 ozs.

Frequency/Timing of Application: Prewash seeds with potable water for at least 5 minutes. Treat pre-washed seeds once by soaking 5 pounds of seeds in 1 gallon of a 2% (20000 ppm) available chlorine solution for 15 minutes at room temperature with continuous agitation. After treatment, drain the solution and rinse the treated seeds thoroughly with potable water for 10 minutes (changing the water several times as necessary). Prepare fresh solution for each batch of seeds.

Restricted Entry Interval (REI): 12 hours

[The USEPA has determined that this REI applies when the calcium hypochlorite is sprayed on the benches or areas around the soaking containers. Note, the REI is not applicable when the disinfectant is applied directly to the raw commodity (seeds) by soaking in a container/bin. There are no re-entry interval concerns when treating pests in this manner (soaking).]

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
IRRIGATION AND CHEMIGATION SYSTEMS

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

DIRECTIONS FOR USE: It is a violation of federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the areas during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

AGRICULTURAL USE REQUIREMENTS:

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This Standard contains requirement for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Workers Protection Standard.

The Restricted-Entry Interval (REI) is 0 days when using this product.

There are no posting or notification requirements when using this product.

Personal Protective Equipment (PPE) must be worn as described under the "Precautionary Statements" section of this label.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295

**DIRECTIONS FOR THE CONTROL OF BACTERIA, ALGAE, SLIME BUILD-UP AND
CLOGGING IN SPECIFIED IRRIGATION SYSTEMS**

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

Directions are for the control of bacteria, algae, water molds, and slime inside agricultural irrigation systems only.

Accu-Tab SI Calcium Hypochlorite Tablets are designed to be used in tablet chlorinator systems. The tablets provide a minimum of 65% available chlorine. The tablets are placed in the chlorinator and the bottom layer of tablets is eroded as water flows through the chlorinator. The inlet water flow controls the rate of chlorination; higher flows result in higher delivery of available chlorine. The Application Rates section below provides the levels of free residual chlorine needed to prevent or address bio-fouling occurring in drip/trickle irrigation systems. Consult the instruction manual for the chlorinator system to determine how to achieve this level with the tablet chlorinator in use.

This product is to be applied through irrigation systems only for agricultural crops only where this manner of use will not cause crop damage.

This product is only for controlling bacteria, algae, water molds, and slime inside irrigation systems. This product is not intended to control bacteria, fungi, and other pests that are already present in the field or on or in the agricultural crop that is being irrigated and shall not be specified or used for that purpose.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
DIRECTIONS FOR THE CONTROL OF BACTERIA, ALGAE, SLIME BUILD-UP AND
CLOGGING IN SPECIFIED IRRIGATION SYSTEMS continued

APPLICATION RATES

If the irrigation water has high levels of nutrients causing bacterial, algal, or other bio-fouling that reduces system performance, continuous use of this product may be necessary. The specified level of free residual chlorine for continuous feed is 1 to 2 ppm, measured at the end of the farthest lateral using a good quality test kit for free chlorine (also called "free residual" or "free available" chlorine).

Periodic shock treatments at a higher available chlorine rate of up to 20 ppm free residual may be appropriate where bacteria and/or algae clogging and build-up are not managed by maintaining a continuous residual. The frequency of the shock application depends upon the frequency and extent of bio-clogging.

Superchlorination, bringing concentrations to as much as 100 ppm total available chlorine, is specified for reclaiming low-volume irrigation systems if clogged by algae and bacterial slimes. Set the metering pump to deliver 100 ppm in the drip system and monitor the free chlorine residual at the end of the farthest lateral. As soon as it is established that the free residual reading is between 10 and 20 ppm, shut the system down and leave it undisturbed for up to 24 hours. Then flush all submains and laterals with fresh water. Superchlorination will not dissolve/remove scale or inorganic sediment fouling.

*Note: To correctly establish the dose setting required, it is necessary to measure the free chlorine concentration (ppm) at the end of the treated increment in the field and adjust the dose setting until the desired free chlorine concentration is obtained. This is because contaminants in the water may consume available chlorine resulting in a concentration that is less than the concentration desired as specified above. Only experience can establish the actual metering pump settings required to provide the amount of free chlorine at the end of the farthest lateral (and consequent treatment of the irrigation system). Normally the treatment level at the end of the farthest lateral will be 1 – 2 ppm free chlorine.

GENERAL APPLICATION INSTRUCTIONS

Chlorination must be started during irrigation early enough to establish the desired free chlorine concentration throughout the system being treated.

Apply this product upstream of the filter to help keep the filter clean.

Determine the level of free chlorine as described above, using a free chlorine test kit. Allow sufficient time to achieve a steady reading.

DO NOT apply this product when fertilizers, herbicides, and insecticides are being injected since they will consume the available chlorine and may produce toxic reaction products.

Shut down the product feed as soon as the irrigation water is switched to the next irrigation sector. Leave the treated water residing in the section that has been shut down.

Refer to the metering pump use instructions as needed.

SENSITIVE PLANT SPECIES

Certain plants, including various species of trees, flowers, shrubs, agronomic crops, fruits and vegetables are adversely affected by chlorinated irrigation. The use of this product can impact the growth, appearance and health of the plants.

Begonias, geraniums and other ornamental plant species are known to be sensitive to continuous chlorination at levels of 1-2 ppm free chlorine. Plant species such as tomato, lettuce, broccoli, and petunia are sensitive to periodic chlorination levels of 10-20 ppm free chlorine.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
DIRECTIONS FOR THE CONTROL OF BACTERIA, ALGAE, SLIME BUILD-UP AND
CLOGGING IN SPECIFIED IRRIGATION SYSTEMS continued

If uncertain of a plant's tolerance, consult an agronomist or a support agency or use an alternate method to remove bio-fouling from the irrigation system.

For chemigation use in Washington State, refer to the attached Washington State Chemigation Use Instructions, which is provided as a supplement to this product label. The Washington State Chemigation Use Instructions are also available upon request from Axiall and can be downloaded off the Axiall web site.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
Washington State Chemigation Use Instructions

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

CHEMIGATION

Accu-Tab SI Calcium Hypochlorite Tablets are designed to be used in tablet chlorinator systems. The tablets provide a minimum of 65% available chlorine. The tablets are placed in the chlorinator and the bottom layer of tablets is eroded as water flows through the chlorinator. The inlet water flow controls the rate of chlorination; higher flows result in higher delivery of available chlorine. The Application Rates section below provides the levels of free residual chlorine needed to prevent or address bio-fouling occurring in drip/trickle irrigation systems. Consult the instruction manual for the chlorinator system to determine how to achieve this level with the tablet chlorinator in use.

CHEMIGATION PROVISIONS:

Irrigation Water Conveyance and Injection System

1. Apply this product only through drip emitters. Do not apply this product through any other type of irrigation system.
2. The irrigation system must provide uniform distribution of treated water. Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
3. The injection apparatus and irrigation system must be calibrated and maintained to uniformly apply the rates specified. The system must be calibrated to uniformly apply the rates specified. If you have questions about calibration, you must contact State Extension Specialists, equipment manufacturers, or other experts.
4. Do not connect any irrigation system (including greenhouse systems) used for a pesticide application to a public water system unless the pesticide-label prescribed safety devices for public water systems are in place and are properly functioning.
5. A person knowledgeable of the chemigation system and responsible for its operation, or someone under the direct supervision of the responsible person, shall start up or shut down the system and make any necessary adjustments, including calibration and monitoring.

Specific Irrigation System Requirements

1. The irrigation system must contain a functional check valve, vacuum relief valve, inspection port, and low-pressure drain that are appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the pesticide injection system.
3. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the pesticide injection system and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
Washington State Chemigation Use Instructions continued

4. The system must contain functional interlocking controls (e.g., pressure switch or flow meter) to automatically shut off the pesticide injection system when the water pump motor stops or, in cases where there is no water pump, when the water pressure or water flow decreases to the point where pesticide distribution is adversely affected.
5. The irrigation mainline or water pump must include a functional pressure switch that will stop the water pump motor when the water pressure or the water flow decreases to the point where pesticide distribution is adversely affected.
6. Systems must be effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an alternative to a RPZ, the water from the public water system must be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of a least twice the inside diameter of the fill pipe.

Functionally Equivalent Substituted Devices

Alternative technology referenced in USEPA's "List of Alternative Chemigation Safety Equipment" may be substituted for specific backflow prevention devices.

Please Note: State chemigation rules may require antipollution devices or protective measures in addition in addition to those specified hereinabove.

APPLICATION INSTRUCTIONS:

General Guidelines

1. Before chlorination is undertaken, a water quality analysis must be performed to quantify inorganic solids such as sand and silt; organic solids such as algae, bacteria, and slime; dissolved solids such as iron, sulfur, sodium chlorides, and calcium; and pH of the water.
2. If pH of the water is above 7.5, the water must be acidified if chlorination is to be effective.
3. The application concentration and application frequency must be based on the water analysis.
4. To correctly establish the dose setting required, it is necessary to measure the free chlorine concentration (ppm) at the end of the treated increment in the field and adjust the dose setting until the desired free chlorine concentration is obtained. This is because contaminants in the water may consume available chlorine resulting in a concentration that is less than the concentration desired. Only experience can establish the actual chlorinator settings required to provide the amount of free chlorine at the end of the farthest lateral (and consequent treatment of the irrigation system).
5. Normally the treatment level at the end of the farthest lateral will be 1-2 ppm free chlorine.
6. When determining free (that is, residual or available) chlorine, use a chlorine test kit that is capable of measuring the concentration of free chlorine, not total chlorine.
7. Refer to the Feed Rate Table in the instruction manual to determine the feed-rate requirement for a predetermined water volume at a desired available chlorine dose level.

Application Rates – Continuous Feed

1. If the irrigation water has high levels of nutrients causing bacterial, algal, or other bio-fouling that reduces system performance, continuous use of this product may be necessary. The specified level of free residual chlorine for continuous feed is 1 to 2 ppm "free" or "residual" chlorine, measured at the end of the farthest lateral.
2. Inject a sufficient amount of this product into the irrigation system to obtain 1 to 5 ppm available (i.e., residual or free) chlorine, and until a concentration of 1 to 2 ppm of free chlorine is measured at the distant end of the irrigation distribution system. Use a chlorine test kit that is capable of measuring the concentration of free chlorine, not total chlorine.

Accu-Tab SI Calcium Hypochlorite Tablets
EPA Reg. No. 748-295
Washington State Chemigation Use Instructions continued

Application Rates – Shock Treatment

1. Periodic shock treatments at a higher available chlorine rate of up to 20 ppm free residual may be appropriate where bacteria and/or algae clogging and build-up are not managed by maintaining a continuous residual. The frequency of the shock application depends upon the frequency and extent of bio-clogging.
2. Perform shock treatment at the end of the irrigation cycle for the length of time that is necessary to fill the entire irrigation system. The chlorinated water must be flushed from the irrigation system at completion of the shock treatment.

Application Rates – Superchlorination

1. Superchlorination, bringing concentrations to as much as 100 ppm total available chlorine, is specified for reclaiming low-volume irrigation systems if clogged by algae and bacterial slimes. Set the chlorinator to deliver 100 ppm in the drip system and monitor the free chlorine residual at the end of the farthest lateral.
2. As soon as it is established that the free residual reading is between 10 and 20 ppm, shut the system down and leave it undisturbed for up to 24 hours. Then flush all submains and laterals with fresh water.
3. Superchlorination will not dissolve/remove scale or inorganic sediment fouling.

GENERAL SYSTEM MAINTENANCE:

Chemical Injection System

To accurately apply pesticides, the injection system must be kept clean, free of chemical or fertilizer residues and sediments. Refer to the owner's manual or ask you equipment supplier for the cleaning procedure for your injection system.

Flushing the Irrigation System

At the end of the application, allow time for the distribution and application system to flush the pesticide through all the nozzles or emitters before turning off the irrigation water. To ensure that the system is flushed of treated water, a dye indicator may be injected into the system to mark the end of the application, or flush for an equal length of time necessary to fully charge the irrigation system.

ENVIRONMENTAL CONDITIONS:

Spray Drift Reduction Management

Do not apply when wind speed favors drift beyond the area intended for treatment. The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator is responsible for considering all of these factors when making application decisions. Avoiding spray drift is the responsibility of the applicator.

Runoff

Irrigation applications must be conducted in a manner to prevent surface runoff from the treatment site.

Wind Speed Restrictions

Drift potential increases at wind speeds less than 3 mph (due to the potential for temperature inversions) or more than 10 mph. However, many factors, including droplet size, plant canopy, temperature, relative humidity, release height, and equipment specifications, determine drift potential at any given wind speed. Do not apply when wind is greater than 15 mph and avoid gusty and windless conditions. Risk of exposure to sensitive areas can be reduced by avoiding applications when wind direction is toward a sensitive area

ENDANGERED SPECIES:

The use of any pesticide in a manner that may kill or otherwise harm an endangered species or adversely modify their habitat is a violation of Federal law. It is the applicator's responsibility, as a condition of using this product, to verify environmental restrictions and to comply with site-specific mitigation as specified in USEPA Endangered Species Protection Program bulletins.