SAN-i-KING NO. 451
Liquid Sodium Hypochlorite
Consult Product Information bulletin for applications and proper use directions.

ACTIVE INGREDIENT: Sodium Hypochlorite………….....12.5%
INERT INGREDIENTS……………………………87.5%
TOTAL……………………………………100.0%

HAZARDS TO HUMANS AND DOMESTIC ANIMALS
Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles, face shield, or safety glasses, protective clothing, and rubber gloves. Avoid breathing vapors. Throat, poorly ventilated areas are an area of concern. Do not return unsold product to bulk container.

maintenance 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 re-establish a 200 ppm residual. Do not rinse equipment with water after treatment, and do not soak equipment overnight.

STORAGE AND DISPOSAL
Do not compromise water, food, or feed by storage and disposal. STORAGE: Store in a cool, dry area away from direct sunlight and heat to avoid deterioration. Do not store with food and water in the same storage area.

MANUFACTURED BY:
Chemical Co.
300 N. Patrick Bld
Brooklyn, WI 53004
1-888-259-6070

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

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES
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 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water to provide approximately 200 ppm available chlorine by weight.

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

SAFETY DATA SHEET BEFORE PRODUCT USE.

PRECAUTIONARY STATEMENTS

DIRECTIONS FOR USE

ENVIRONMENTAL HAZARDS
This product is toxic to fish and aquatic organisms. Do not discharge this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or the Regional Office of the EPA.

If swallowed, call a poison control center or doctor for treatment advice.

Sanitizers used in automated systems may be used for general cleaning, but may not be re-used for sanitizing purposes.

KEEP OUT OF REACH OF CHILDREN.
DANGER
SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

FIRST AID +

IF IN EYES - Hold eye open and rinse slowly and gently with water for 15 to 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 a poison control center or doctor immediately for treatment advice.

IF INHALED - Call a poison control center or doctor immediately for treatment advice.

Environmental Hazards
This product is toxic to fish and aquatic organisms. Do not discharge this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollution Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or the Regional Office of the EPA.

Physical and Chemical Hazards
Strong Oxidizing Agent. Mix only with water according to label directions. Flush drains before and after use. Mixing this product with organic matter (e.g., urine, feces, etc.) or chemicals (e.g., ammonia, acids, detergents, etc.) will release chlorine gas which is irritating to eyes, lungs and mucous membranes.

Manufactured by:
Chemical Co.
300 N. Patrick Blvd
Brooklyn, WI 53004
1-888-259-6070

D.O.T. SHIPPING CLASSIFICATION: RQ, UN1791, HYPOCHLORITE SOLUTION

Precautionary Statements
DANGER

REFERENCES

See Side Panel for Additional Precautionary Statements.
San-I-King No. 451

For use as a disinfectant, sanitizer, or for microorganism control

Active Ingredient:
Sodium Hypochlorite..............12.5%
Inert Ingredients..................87.5%
Total                          100.0%

DANGER - KEEP OUT OF REACH OF CHILDREN

FIRST AID

IF IN EYES
• Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
• Call a poison control center or physician immediately for treatment advice.

IF ON SKIN OR CLOTHING
• Take off contaminated clothing.
• Rinse skin immediately with plenty of water for 15-20 minutes.
• Call a poison control center or doctor for treatment advice.

IF SWALLOWED
• Call a poison control center or doctor immediately for treatment advice.
• Have person sip a glass of water if able to swallow.
• Do not induce vomiting unless told to do so by the poison control center or doctor.
• Do not give anything by mouth to an unconscious person.

IF INHALED
• Move person to fresh air.
• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.
• Call a poison control center or doctor for further treatment advice.

HOT LINE NUMBER
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
You may also contact 24 Hour EMERGENCY:
414 / 227-1311 or CHEMTREC 800 / 424-9300.

EPA Reg. No.: 2686-20001
EPA Est. No.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

DANGER: Corrosive. Causes irreversible eye damage and skin burns. Do not get in eyes, on skin or on clothing. Wear goggles, face shield or safety glasses, protective clothing and rubber gloves. Avoid breathing vapors. Vacate poorly ventilated areas as soon as possible. Do not return until strong odors have dissipated. Wash after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash before reuse.

Environmental Hazards

This product is toxic to fish and aquatic organisms. Do not discharge this product into lakes, streams, ponds, estuaries, oceans or public waters unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

Physical and Chemical Hazards

Strong oxidizing agent. Mix only with water according to label directions. Flush drains before and after use. Mixing this product with organic matter (e.g., urine feces, etc.) or chemicals (e.g., ammonia, acids, detergents, etc.) will release chlorine gas which is irritating to eyes, lungs and mucous membranes.
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READ AND UNDERSTAND LABEL AND MATERIAL SAFETY DATA SHEET BEFORE PRODUCT USE

DIRECTIONS FOR USE

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

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

STORAGE AND DISPOSAL

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

(For commercial, industrial, institutional use nonrefillable containers equal to or less than 5 gallons)
STORAGE: Store in a cool, dry area away from direct sunlight and heat to avoid deterioration. In case of spill, flood area with large quantities of water.
PRODUCT DISPOSAL: Products or rinsates that cannot be used must be diluted with water before disposal in a sanitary sewer.
CONTAINER HANDLING:
(For commercial, industrial, institutional use nonrefillable containers equal to or less than 5 gallons)
Nonrefillable container. Do not reuse or refill this container. Fill the container ¼ full with water and recap. Shake for 10 seconds and dispose of rinsate in sanitary sewer. Offer container for recycling if available or reconditioning if appropriate or place in trash.

(For commercial, industrial, institutional use nonrefillable containers greater than 5 gallons)
Nonrefillable container. Do not reuse or refill this container. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Dispose of rinsate in sanitary sewer. Offer container for recycling if available or reconditioning if appropriate or place in trash.

(For use on refillable containers)
Refillable container. Refill this container with sodium hypochlorite only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Dispose of rinsate in sanitary sewer. Offer container for recycling if available or reconditioning if appropriate or place in trash.
1. SEWAGE AND WASTEWATER TREATMENT

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 10 to 100 oz. of this product with 100 gallons of water. Once control is evident, apply a 15 ppm available chlorine solution. Prepare this solution by mixing 1.5 oz. of this product with 100 gallons of water.

FILTER BEDS - SLIME CONTROL: Remove filter from service, drain to a depth of 1 ft. above filter sand, and add 80 oz. of product per 20 sq./ft evenly over the surface. Wait 30 minutes before draining water to a level that is even with the top of the filter. Wait for 4 to 6 hours before completely draining and backwashing filter.

2. SEWAGE & WASTEWATER EFFLUENT TREATMENT

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

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

The following are critical factors affecting wastewater disinfection.

1. Mixing: It is imperative that the product and the wastewater be instantaneously and completely flash mixed to assure reaction with every chemically active soluble and particulate component of the wastewater.

2. Contacting: Upon flash mixing, the flow through the system must be maintained.

3. Dosage/Residual Control: Successful disinfection is extremely dependent on response to fluctuating chlorine demand to maintain a predetermined, desirable chlorine residual after a 15 to 30 minute contact time. A reasonable average of residual chlorine is 0.5 ppm after 15 minutes contact time.

3. DISINFECTION OF DRINKING WATER
(EMERGENCY/PUBLIC/INDIVIDUAL SYSTEMS)

PUBLIC SYSTEMS - Mix a ratio of 1 oz. of this product to 100 gallons of water. Begin feeding this solution with a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Interim Primary Drinking Water Regulations. Contact your local Health Department for further details.
INDIVIDUAL SYSTEMS: DUG WELLS - Upon completion of the casing (lining), wash the interior of
the casing with a 100 ppm available chlorine solution using a stiff brush. This solution can be made by
thoroughly mixing 1 oz. of this product into 10 gallons of water. After covering the well, pour the
sanitizing solution into the well through both the pipe sleeve opening and the pipeline. Wash the exterior
of the pump cylinder also with the sanitizing solution. Start pump and pump water until strong odor of
chlorine in water is noted. Stop pump and wait at least 24 hours. After 24 hours flush well until all traces
of chlorine have been removed from the water. Consult your local Health Department for further details.

INDIVIDUAL WATER SYSTEMS: 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 oz. of this product into 10 gallons of water. Add 5 to
10 gallons of clean, chlorinated water to the well in order to force the sanitizer into the rock formation.
Wash the exterior of the pump cylinder with the sanitizer. Drop pipeline into the 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 our local Health Department for further details.

INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS - Artesian wells generally do not
require disinfection. If analyses indicate persistent contamination, the well should be disinfected.
Consult your local Health Department for further details.

EMERGENCY DISINFECTION - When boiling of water for 1 minute is not practical, water can be made
potable by using this product. Prior to addition of the 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 drop of this product to 20 gallons of water. Allow the treated water to stand for 30
minutes. Properly treated water should have a slight chlorine odor, if not, repeat dosage and allow the
water to stand an additional 15 minutes. The treated water can then be made palatable by pouring it
between clean containers for several times. This process has not been demonstrated to inactivate
Cryptosporidium cysts.

4. PUBLIC WATER SYSTEMS

RESERVOIRS: ALGAE CONTROL - Hypochlorinate streams feeding the reservoir. Suitable feeding
points should be selected on each stream at least 50 yards upstream from the points of entry into the
reservoir.

MAINS - Thoroughly flush section to be sanitized by discharging from hydrants. Permit a water flow of
at least 2.5 feet per minute to continue under pressure while injecting this product by means of a
hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure
end of the new main section after a 24 hour retention time. When chlorination is completed, the system
must be flushed free of all heavily chlorinated water.
NEW TANKS, BASINS, ETC. - Remove all physical soil from surfaces. Place 20oz. of this product for each 5 cubic feet of working capacity (500 ppm available chlorine). Fill to working capacity and allow to stand for at least 4 hours. Drain and flush with potable water and return to surface.

NEW FILTER SAND - Apply 80 oz. of this product for each 150 to 200 cubic feet of sand. The action of the product dissolving as the water passes through the bed will aid in sanitizing the new sand.

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

EXISTING EQUIPMENT - Remove equipment from service, thoroughly clean surfaces of all physical soil. Sanitize by placing 21 oz. of this product for each 5 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and 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 5 oz. of this product for each 5 gallons of water (approximately 1000 ppm available chlorine). After drying, flush with water and return to service.

5. EMERGENCY DISINFECTION AFTER FLOODS

WELLS - Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 5 oz. of this product with 10 gallons of water. Backwash the well to increase yield and reduce turbidity, adding sufficient chlorination solution to the backwash to produce a 10 ppm chlorine residual, as determined by a chlorine test kit. After the turbidity has been reduced and the casing has been treated, add sufficient chlorinating solution to produce a 50 ppm available chlorine residual. Agitate the well water for several hours and take a representative water sample. Retreat well if water samples are biologically unacceptable.

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, ETC. - Thoroughly clean all equipment, then apply 20 oz. of product per 5 cu. ft. 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 5 oz. of this product for each 5 gallons of water (1000 ppm available chlorine). Allow to stand for 2 to 4 hours, flush and return to service.

FILTERS - When the sand filter needs replacement, apply 80 oz. of this product for each 150 to 200 cubic feet of sand. When the filter is severely contaminated, additional product should be distributed over the
surface at the rate of 80 oz. per 20 sq. ft. Water should 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 80 oz. of this product per each 50 sq. ft., 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.

6. EMERGENCY DISINFECTION AFTER FIRES

CROSS CONNECTIONS OF EMERGENCY CONNECTIONS - Hypochlorination or gravity feed equipment should 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.

7. EMERGENCY DISINFECTION AFTER DROUGHTS

SUPPLEMENTARY WATER SUPPLIES - Gravity or mechanical hypochlorite feeders should 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, ETC. - 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 5 oz. of this product for each 10 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.

8. 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.

9. COOLING TOWER/EVAPORATIVE CONDENSER WATER

SLUG FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.
INTERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

Subsequent Dose: When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1.5 oz. of this product per 1,000 gallons of water lost by blowdown to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

10. PULP AND PAPER MILL PROCESS WATER SYSTEMS

SLUG FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Repeat until control is achieved.

Subsequent Dose: When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. Badly fouled systems must be cleaned before treatment is begun.

INTERMITTENT FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown.

Subsequent Dose: When microbial control is evident, add 11 oz. of this product per 10,000 gallons of water in the system to obtain a 1 ppm residual. Apply half (or 1/3, 1/4, or 1/5) of this initial dose when half (or 1/3, 1/4, or 1/5) of the water in the system has been lost by blowdown. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, apply 52 to 104 oz. of this product per 10,000 gallons of water in the system to obtain 5 to 10 ppm available chlorine.

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

POST-HARVEST PROTECTION - 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 ton of potatoes. Thoroughly mix 1 oz. of this product to 2 gallons of water to obtain 500 ppm available chlorine.

BEE CELLS AND BEE BOARDS - Disinfect leaf-cutting bee cells and bee boards by immersion in a solution containing 1ppm 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 1 tsp. of this product to 100 gallons of water. The bee domicile is 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. [Not for Use in California]

FOOD EGG SANITIZATION - Thoroughly clean all eggs. Thoroughly mix 2.5 oz. of this product with 10 gallons of warm water to produce a 200 ppm available chlorine solution. The sanitizer temperature should not exceed 130 degrees 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 solution should not be re-used to sanitize eggs.

FRUIT & VEGETABLE WASHING – All fruits and vegetables should be cleaned by thoroughly washing in an appropriate cleaning solution. Remove all soils and other residues prior to treating with this product. After washing, transfer the fruit and vegetables to a separate tank containing the solution. Apply this product at the recommended concentration of available chlorine. See the following table for recommended usage concentrations for the fruit or vegetable being processed. To prepare a 100 ppm available chlorine solution, add 0.75 gallon of this product to 1,000 gallons of water. The use of a calcium carbonate buffer to control pH is recommended. Maintain the pH of the use solution between 6.0 and 8.0 with a dilute solution of hydrochloric acid. For citrus quarantine, use at 200 ppm at pH 6.0 to 7.5. Apply for two minutes using a suitable spray or dip tank treatment.
## DOSAGE IN FRUIT AND VEGETABLE TREATMENT

Available Chlorine Required in Treatment Water

Maintain the following temperatures:
- Tank/Flume: 60-70°F
- Spray: 65-75°F
- Hydrocooler: 34-40°F

Do not rinse treated commodities with water prior to packaging.

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<td>Apples</td>
<td>Dump Truck</td>
<td>100-150</td>
<td>For dump tank and flume, submerge the apples for 90 seconds.</td>
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<td>Flume</td>
<td>30-50</td>
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<td></td>
<td>Spray</td>
<td>100-150</td>
<td>For spray, maintain contact for 5-15 seconds.</td>
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<tr>
<td>Artichokes</td>
<td>Spray</td>
<td>100-150</td>
<td>Spray 5-15 seconds</td>
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<tr>
<td>Asparagus</td>
<td>Spray</td>
<td>100-150</td>
<td>Spray 5-15 seconds</td>
</tr>
<tr>
<td></td>
<td>Hydrocooler</td>
<td>125-150</td>
<td>Hydrocool for 20-30 minutes.</td>
</tr>
<tr>
<td>Brussel Sprouts</td>
<td>Spray</td>
<td>100-150</td>
<td>Spray 5-15 seconds</td>
</tr>
<tr>
<td>Cabbage (chopped)</td>
<td>Spray</td>
<td>80-100</td>
<td>Spray 5-15 seconds. After treatment, the adhering moisture must be removed by centrifuging.</td>
</tr>
<tr>
<td>Carrots</td>
<td>Dump Truck</td>
<td>100-200</td>
<td>Immerse in dump tank or flume for 1-5 minutes.</td>
</tr>
<tr>
<td></td>
<td>Flume</td>
<td>100-200</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Spray</td>
<td>50-100</td>
<td></td>
</tr>
<tr>
<td>Cauliflower</td>
<td>Spray</td>
<td>300-400</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Celery</td>
<td>Spray</td>
<td>100</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Cherries</td>
<td>Spray</td>
<td>75-100</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Garlic</td>
<td>Spray</td>
<td>75-100</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td></td>
<td>Tank</td>
<td>75-100</td>
<td>Immerse in tank for 2-5 minutes contact.</td>
</tr>
<tr>
<td>Grapefruits</td>
<td>Spray</td>
<td>40-75</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td></td>
<td>Drench</td>
<td>100-150</td>
<td>Drench for 3-5 minutes. For citrus quarantine treatment, use 200 ppm of available chlorine at pH 6.0-7.5 in drench tank.</td>
</tr>
<tr>
<td>Lemons</td>
<td>Dump Tank</td>
<td>30-50</td>
<td>Immerse in dump tank for 2-3 minutes.</td>
</tr>
<tr>
<td>Lettuce (chopped)</td>
<td>Spray</td>
<td>80-100</td>
<td>Spray for 5-15 seconds. After treatment, the adhering moisture must be removed by centrifuging.</td>
</tr>
<tr>
<td>Melons (all varieties)</td>
<td>Hydrocooler</td>
<td>30-75</td>
<td>Hydrocool for 20-30 minutes.</td>
</tr>
<tr>
<td></td>
<td>Spray</td>
<td>100-200</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Mushrooms</td>
<td>Spray</td>
<td>100-200</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>After treatment with the chlorinated water, mushrooms must be treated with anti-oxidant to prevent browning.</td>
</tr>
<tr>
<td>Onion (dry)</td>
<td>Spray</td>
<td>75-150</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td></td>
<td>Tank</td>
<td>75-150</td>
<td>Immerse in tank for 2-3 minutes.</td>
</tr>
<tr>
<td>Onions (green)</td>
<td>Spray</td>
<td>75-120</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Oranges</td>
<td>Drench</td>
<td>100-200</td>
<td>Drench for 3-5 minutes.</td>
</tr>
<tr>
<td></td>
<td>Spray</td>
<td>40-75</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Nectarines</td>
<td>Hydrocooler</td>
<td>30-75</td>
<td>Hydrocool for 20-30 minutes.</td>
</tr>
<tr>
<td></td>
<td>Spray</td>
<td>50-100</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Peaches</td>
<td>Hydrocooler</td>
<td>30-75</td>
<td>Hydrocool for 20-30 minutes.</td>
</tr>
<tr>
<td></td>
<td>Spray</td>
<td>50-100</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Pears</td>
<td>Dump Tank</td>
<td>200-300</td>
<td>Immerse in tank for 2-3 minutes.</td>
</tr>
<tr>
<td>Peppers (Not for use in CA)</td>
<td>Spray</td>
<td>300-400</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Pineapples (Not for use in CA)</td>
<td>Drench</td>
<td>100-150</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td></td>
<td></td>
<td>40-100</td>
<td>Drench for 3-5 minutes.</td>
</tr>
<tr>
<td>Produce</td>
<td>Treatment</td>
<td>Concentration</td>
<td>Time Details</td>
</tr>
<tr>
<td>----------</td>
<td>----------------</td>
<td>---------------</td>
<td>--------------</td>
</tr>
<tr>
<td>Plums</td>
<td>Hydrocooler Spray</td>
<td>30-75, 50-100</td>
<td>Hydrocool for 20-30 minutes, Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Potatoes</td>
<td>Dump Tank Spray</td>
<td>30-100, 200-300, 100-200</td>
<td>Immerse in tank or flume for 2-5 minutes, Spray for 5-30 seconds.</td>
</tr>
<tr>
<td>Potatoes (white)</td>
<td>Spray</td>
<td>500-600</td>
<td>This concentration of chlorine should be used only if bleaching of potatoes is desirable. Spray for 5-20 seconds.</td>
</tr>
<tr>
<td>Radishes</td>
<td>Tank Spray</td>
<td>10-25, 100-150</td>
<td>Immerse in tank for 1-12 seconds, Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Spinach</td>
<td>Spray</td>
<td>75-150</td>
<td>Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Tomatoes</td>
<td>Tank Spray</td>
<td>200-350</td>
<td>Immerse in tank for 2-3 minutes, Spray for 5-15 seconds.</td>
</tr>
<tr>
<td>Yams</td>
<td>Tank</td>
<td>100-200</td>
<td>Immerse in tank for 2-3 minutes.</td>
</tr>
</tbody>
</table>
12. FARM PREMISES

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. 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 11 oz. of this product with 10 gallons of water. Immerse all halters, ropes, and other types of 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 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.

13. SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

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 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 2 oz. of this product with 10 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 re-used 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 oz. of this product with 10 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 2 oz. of this product with 10 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.

Sanitizers used in automated systems may be used for general cleaning but may not be re-used 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 2.5 oz. product with 10 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. 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 2 oz. product with 10 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.

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

14. SANITIZING OF POROUS FOOD CONTACT SURFACES

RINSE METHOD - Prepare a sanitizing solution by thoroughly mixing 6 oz. of this product with 10 gallons of water to provide approximately 600 ppm available chlorine by weight. Clean surfaces in the normal manner. Prior to use, rinse all surfaces with the sanitizing solution, maintaining contact with the sanitizer for at least 2 minutes and allow the sanitizer to drain. Following this, prepare a 200 ppm sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water and rinse all surfaces with this 200 ppm solution. Do not rinse with water and do not soak equipment overnight.

IMMERSION METHOD - Prepare a sanitizing solution by thoroughly mixing, in an immersion tank, 6 oz. of this product with 10 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, maintaining contact for at least 2 minutes and allow the sanitizer to drain. Following this, prepare a 200 ppm sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water and rinse all surfaces with this 200 ppm solution. Do not rinse with water 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 6 oz. product with 10 gallons of water. Use spray or fogging equipment which can resist hypochlorite solutions. Always empty and rinse spray/fog equipment with potable water after use. Thoroughly spray or fog all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment, rinse all surfaces with a 200 ppm available chlorine solution. Prepare a 200 ppm sanitizing solution by thoroughly mixing 2 oz. of this product with 10 gallons of water.

15. SANITIZATION OF NON-POROUS NON-FOOD CONTACT SURFACES

Rinse Method - Prepare a sanitizing solution by thoroughly mixing 2 oz. of this product with 10 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, 2 oz. of this product with 10 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 – Pre-clean all surfaces after use. Prepare a 200 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 2 oz. product with 10 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.

16. DISINFECTION OF NON-POROUS NON-FOOD CONTACT SURFACES

Rinse Method - Prepare a disinfecting solution by thoroughly mixing 6 oz. of this product with 10 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, 6 oz. of this product with 10 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 sanitizer to drain. Do not rinse equipment with water after treatment.
17. SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES

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

18. SWIMMING POOL WATER DISINFECTION

For a new pool or spring start-up, super-chlorinate with 52 to 104 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Adjust and maintain pool water pH to between 7.2 to 7.6. Adjust and maintain the alkalinity of the pool to between 50 to 100 ppm.

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

Every 7 days, or as necessary, super-chlorinate the pool with 52 to 104 oz. of product for each 10,000 gallons of water to yield 5 to 10 ppm available chlorine by weight. Check the level of available chlorine with a test kit. Do not re-enter pool until the chlorine residual is between 1.0 to 3.0 ppm.

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

WINTERIZING POOLS - While water is still clear & clean, apply 3 oz. of product per 1000 gallons, while filter is running, to obtain a 3 ppm available chlorine residual, as determined by a suitable test kit. Cover pool, prepare heater, filter and heater components for winter by following manufacturers' instructions.
19. SPAS, HOT-TUBS, IMMERSION TANKS, ETC.

SPAS/HOT-TUBS - Apply 5 oz. of product per 1000 gallons of water to obtain a free available chlorine concentration of 5 ppm, as determined by a suitable chlorine test kit. Adjust and maintain pool water pH to between 7.2 and 7.8. Some oils, lotions, fragrances, cleaners, etc. may cause foaming or cloudy water as well as reduce the efficiency of the product.

To maintain the water, apply 5 oz. of product per 1000 gallons of water over the surface to maintain a chlorine concentration of 5 ppm.

After each use, shock treat with 8 oz. of this product per 500 gallons of water to control odor and algae.

During extended periods of disuse, add 3 oz. of product daily per 1000 gallons of water to maintain a 3 ppm chlorine concentration.

20. LAUNDRY SANITIZERS

a. Household Laundry Sanitizers

IN SOAKING SUDS - Thoroughly mix 2 oz. 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 2 oz. 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.

b. Commercial Laundry Sanitizers

Wet fabrics or clothes should be spun dry prior to sanitization. Thoroughly mix 2 oz. of this product with 10 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the prewash prior to washing fabrics/clothes in the regular wash cycle with a good detergent. Test the level of available chlorine, if solution has been allowed to stand. Add more of this product if the available chlorine level has dropped below 200 ppm.

21. AQUACULTURAL USES

FISH PONDS - Remove fish from ponds prior to treatment. Thoroughly mix 103 oz. of this product to 10,000 gallons of water to obtain 10 ppm available chlorine.

Add more product to the water if the available chlorine level is below 1 ppm after 5 minutes. Return fish to pond after the available chlorine level reaches zero.
FISH POND EQUIPMENT - Thoroughly clean all equipment prior to treatment. Thoroughly mix 2 oz. of this product to 10 gallons of water to obtain 200 ppm available chlorine. Porous equipment should soak for one hour.

MAINE LOBSTER PONDS - Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 6,200 oz. of this product to 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all barrows, gates, rocks and dams are treated with product. Permit high tide to fill the pond and then close the gates. Allow water to stand for 2 to 3 days until the available chlorine level reaches zero. Open gates and allow 2 tidal cycles to flush the pond before returning lobsters to the pond.

CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS - Prepare a solution containing 200 ppm of available chlorine by mixing 2 oz. of product with 10 gallons of water. Pour into drained pond potholes. Repeat if necessary. Do not put desirable fish back into refilled ponds until chlorine residual has dropped to 0 ppm, as determined by a test kit.

23. ASPHALT OR WOOD ROOFS AND SIDINGS

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 5 oz. of this product per gallon of water and brush or spray roof or siding. After 30 minutes, rinse by hosing with clean water. [Not for Use in California]

24. BOAT BOTTOMS

To control slime on boat bottoms, sling a plastic tarp under boat, retaining enough water to cover the fouled bottom area, but not allowing water to enter enclosed area. This envelope should contain approximately 500 gallons of water for a 14 foot boat. Add 18 oz. of this product to this 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 swimming pool test kit. [Not for Use in California]

25. ARTIFICIAL SAND BEACHES

To sanitize the sand, spray a 500 ppm available chlorine solution containing 5 oz. of this product per 10 gallons of water at frequent intervals. Small areas can be sprinkled with a watering can. [Not for Use in California]

26. CLEANING FORMULATIONS, BLEACHING & NON-PESTICIDE CHEMICAL MANUFACTURING

This product may be used for cleaning formulations, bleaching and non-pesticide chemical manufacturing. Only specifically designed handling and dispensing equipment should be used in accordance with manufacturer’s instructions and according to operating instructions or product formulation defined by the facility.