



U.S. ENVIRONMENTAL PROTECTION AGENCY
 Office of Pesticide Programs
 Antimicrobials Division (7510P)
 1200 Pennsylvania Ave., N.W.
 Washington, D.C. 20460

EPA Reg. Number:

95968-2

Date of Issuance:

7/26/21

NOTICE OF PESTICIDE:

Registration
 Reregistration
 (under FIFRA, as amended)

Term of Issuance:

Conditional

Name of Pesticide Product:

AQUA ORG PLUS

Name and Address of Registrant (include ZIP Code):

Olivia Laird
 Regulatory Agent for Organic Industries
 Organic Industries PVT. LTD.
 S/183, GIDC, Dahej, Taluka Vagra, Dist.
 Bharuch Gujarat
 Bharuch, India 392130

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

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

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

This product is conditionally registered in accordance with FIFRA section 3(c)(7)(A). You must comply with the following conditions:

1. Submit and/or cite all data required for registration/reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data.

Signature of Approving Official:

Demson Fuller,
 Product Manager Team 32 RMB1
 Antimicrobials Division (7510P)

Date:

7/26/21

2. You are required to comply with the data requirements described in the DCI Order identified below:
 - a. Chemical Name GDCI-014701-16851
 - b. Chemical Name GDCI-014701-16296
 - c. Chemical Name PDCI-014701-0008

You must comply with all of the data requirements within the established deadlines. If you have questions about the Generic DCI listed above, you may contact the Reevaluation Team Leader (Team 36):
<http://www2.epa.gov/pesticide-contacts/contacts-office-pesticide-programs-antimicrobial-division>

3. Make the following label changes before you release the product for shipment:
 - Revise the EPA Registration Number to read, "EPA Reg. No. 95968-2."
4. Submit one copy of the final printed label for the record before you release the product for shipment.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the Agency. See FIFRA section 2(p)(2). If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process, FIFRA section 12(a)(1)(B). Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Assurance.

If you fail to satisfy these data requirements, EPA will consider appropriate regulatory action including, among other things, cancellation under FIFRA section 6(e). Your release for shipment of the product constitutes acceptance of these conditions. A stamped copy of the label is enclosed for your records. Please also note that the record for this product currently contains the following CSFs:

- Basic CSF dated 04/26/2021

If you have any questions, please contact Jack Hall by phone at 703-347-8647, or via email at hall.john.j@epa.gov.

Sincerely,



Demson Fuller, Product Manager 32
Regulatory Management Branch I
Antimicrobials Division (7510P)
Office of Pesticide Programs

Enclosure

{MASTER Aqua-Org Plus Superior Quality Calcium Hypochlorite Granules}

{Text in brackets [xxx] is optional and may or may not be included on any final label.}
{Text in braces {xxx} is for administrative purposes and will not appear on any final label}

**AQUA-ORG PLUS
SUPERIOR QUALITY CALCIUM HYPOCHLORITE GRANULES**

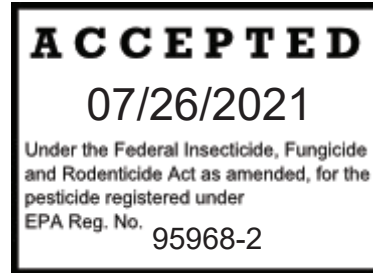
ACTIVE INGREDIENT

CALCIUM HYPOCHLORITE.....MIN. 65.00%
OTHER INGREDIENTS.....MAX. 35.00%
TOTAL.....MIN. 100.00%

[AVAILABLE CHLORINE 70%]

{Optional marketing statements.}

- [For Commercial Pool Use]
- [For Swimming Pool Disinfection]
- [For Sewage & Wastewater Effluent Treatment]
- [For Industrial Use Applications]
- [For Industrial and Institutional Uses]
- [For Spa & Hot Tubs]
- [For Hubbard and Immersion Tanks]
- [For Sanitization of Nonporous Food Contact Surfaces]
- [For Sanitization of Porous Food Contact Surfaces]
- [For Sanitization of Nonporous Non-Food Contact Surfaces]
- [For Disinfection of Nonporous Non-Food Contact Surfaces]
- [For Sanitization of Porous Non-Food Contact Surfaces]
- [For Sewage & Wastewater Effluent Treatment]
- [For Disinfection of Drinking Water (Emergency/Public/Individual Systems)]
- [For Public Water Systems]
- [For Emergency Disinfection after Floods]
- [For Emergency Disinfection after Fires]
- [For Emergency Disinfection after Droughts]
- [For Emergency Disinfection after Main Breaks]
- [For Cooling Tower/Evaporative Condenser]
- [For Farm Premises]
- [For Pulp and Paper Mill Process Water Systems]
- [For Agricultural Uses]
- [For Aquaculture Uses]
- [For Food processing Plants]
- {For Control of Bacteria Algae Slime Build-up and Clogging in Specified Irrigation Systems}
- [Concentrated Chlorinating Agent]
- [Disinfectant]
- [Kills Bacteria]
- [Controls Algae]



NET CONTENTS: 100 LBS (45.4 KGS)



Manufactured By: **Organic Industries Pvt. Ltd.**

S/163, GIDC, Dahej, Taluka Vagra, Dist. Bharuch, Gujarat-392130, India

Tel No: +91 22 41622828 (100 Lines) E-mail: info@organicgroup.co.in

EPA REG. NO. :

EPA EST. NO. : 95968-IND-001

CALCIUM HYPOCHLORITE HYDRATED (Sodium Process)

KEEP OUT OF REACH OF CHILDREN

DANGER

FIRST AID

IF IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor before going for treatment.

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 a 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 and then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center for further treatment advice.

Note to Physician: Probable mucosal damage may contraindicate the use of gastric lavage. For emergency information on Aqua-Org Plus, call the National Pesticides Information Center at 1-800-858-7378, 6:30 AM to 4:30 PM Pacific Time (PT), seven days a week. Other times, call the poison control center 1-800-222-1222.

IN CASE OF MEDICAL EMERGENCY, CALL Manufacturer Hotline # 18558385151

See additional precautions on side panel

PRECAUTIONARY STATEMENTS

HAZARDOUS TO HUMANS AND DOMESTIC ANIMALS

DANGER: Corrosive. Causes irreversible eye damage and skin burns. Harmful if absorbed through skin. Do not get in eyes, on skin or on clothing. Wear goggles or safety glasses and rubber gloves when handling Aqua-Org Plus product. Wash thoroughly with soap and water after handling and before eating, drinking, and chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Vacate poorly ventilated area as soon as possible. Do not return until strong odors have dissipated.

ENVIRONMENTAL HAZARDS

Aqua-Org Plus pesticide is toxic to fish and aquatic organisms. Do not discharge effluent containing Aqua-Org Plus into lakes, streams, ponds, estuaries, oceans or public waters unless this product is 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 Aqua-Org Plus to sewer systems without previously notifying the sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

PHYSICAL OR CHEMICAL HAZARDS

STRONG OXIDIZING AGENT: Mix only with water. Use clean dry utensils. Do not add Aqua-Org Plus to any dispensing device containing remnants of any other product. Such use may cause a violent reaction leading to fire or explosion. Contamination with moisture, organic matter or other chemicals will start a chemical reaction and generate heat, chlorine gas (and possible fire and explosion). In case of contamination or decomposition, do not reseal container. If possible, isolate container in open air or well ventilated area. Flood area with large volumes of water, if necessary.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal.

Pesticide Storage: Keep Aqua-Org Plus in a tightly closed container, when not in use. Store in cool, dry and well-ventilated area away from heat and open flame. Re-tie polyethylene liner after each use and keep container tightly closed. In case of decomposition or spill isolate container in open area if possible and flood with large amounts of water to dissolve all material before discarding this container in trash.

Pesticide Disposal: Pesticide wastes are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the EPA Regional Office for guidance. The disposal methods are incinerations or chemical treatment in accordance with Federal, State and Local regulations. DO NOT put product, spilled products, or filled or partially filled containers into trash or waste compactor. Contact with incompatible materials could cause a reaction and fire. Neutralize material to a non-oxidizing state for safe disposal.

Container Handling and Disposal: Non-refillable rigid container. Do not re-use or refill this container. Triple rinse when contaminated with product. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

As a pesticide, Aqua-Org Plus is for following end uses: Microbiocide/Microbiostat, Disinfectant, Sanitizer, Bactericide, Fungicide, or Algaecide intended for the following general sites: Swimming Pools, Sewage and Waste Water Effluent Treatment Systems, Potable Water Treatment Systems (Emergency/ Public / Individual Systems), Spa and Hot Tubs, Indoor Non-Food, Indoor Residential, Industrial and Institutional Uses, Industrial use Applications, Use on Farm Premises, Aquatic Non-Food Industrial and Aquatic Non-Food Residential.

Repackagers or formulators using Aqua-Org Plus are responsible for obtaining EPA registration of their products. This product may be used by manufacturers of non-pesticidal products provided no pesticidal claim is made.

DIRECTIONS FOR USE: It is a violation of federal law to use Aqua-Org Plus in a manner inconsistent with its labeling.

READ ALL PRECAUTIONARY STATEMENTS BEFORE USE.

USE 1) - SWIMMING POOLS

AQUA-ORG PLUS is a concentrated chlorinating agent. It is in a dry, free-flowing form. It kills bacteria, controls algae and destroys organic contaminants in pools.

WHY YOU SHOULD USE AQUA-ORG PLUS: This is a highly effective, multi-purpose product that sanitizes, clarifies, helps prevent algae and shock treats your pool. It is convenient, easy to use, and

won't over-stabilize your pool. For crystal clean clear pool water. Follow our 4 step pool care program: Step 1: Test and balance pool water; Step 2: Sanitize; Step 3: Shock at least once a week; and Step 4: Add algaecide as directed. For best results, follow a weekly program with our AQUA-ORG PLUS System. Consult your authorized AQUA-ORG PLUS dealer for advice on the system that best suits your pool and your lifestyle. Take a pool water sample to your authorized AQUA-ORG PLUS dealer regularly for a detailed water analysis.

METHOD OF APPLICATION: OR HOW TO USE: Do not pre-mix this product. Only add AQUA-ORG PLUS directly to your pool or skimmer.

Use only a clean, dry scoop/cup/lid to measure AQUA-ORG PLUS. Do not use the scoop/cup/lid for any other purpose. When contents are in a single use bag for use as a shock for pools 10,000 gallons or larger, use entire contents when opened.

Method for dosing directly into pool: 1) Add the recommended dosage of AQUA-ORG PLUS during evening hours while the filter pump is running. 2) When adding AQUA-ORG PLUS to your pool, broadcast the product evenly over a wide area in the deepest part of the pool. 3) If any granules settle to the bottom of the pool, use brush to disperse.

Method for skimmer addition: Use this method to avoid bleaching vinyl liner or paint. 1. Make sure that filter pump is on and properly re-circulating through skimmer. 2. Empty skimmer of all chemicals and or debris. Contamination may cause an explosion or the release of toxic gases. Do not use this method when an automatic chemical dispensing device (e.g. feeder) is present. 3. Pour AQUA-ORG PLUS slowly into skimmer, making sure that the material is drawn into the system at the same rate. 4. Do not allow this material to accumulate as toxic gases may be generated.

WATER BALANCE: For best product performance, swimmer comfort and crystal clear water use AQUA-ORG PLUS pool care products to maintain the following water balance:

	Acceptable Range for Balance
pH	7.2 -7.6
Total Alkalinity	60-120 ppm
Calcium Hardness	Above 200 ppm
Available Chlorine	1-4 ppm

Follow label directions for each product and allow each product to dissolve and disperse before adding additional products to the pool. Use a reliable test kit that measures all these ranges.

OPENING YOUR POOL: Follow "POOL SHOCK TREATMENT" directions. 1. Allow 30 minutes for product to disperse and test chlorine residual with a pool test kit. 2. Repeat dosage, as needed, until chlorine residual is 1 to 4 ppm.

POOL SHOCK TREATMENT: 1) Add the recommended dosage of AQUA-ORG PLUS while the filter pump is running. See METHOD OF APPLICATION. 2) When adding AQUA-ORG PLUS to your pool, broadcast the product evenly over a wide area in the deepest part of the pool. **DOSAGE RATE:** 1) Adjust and maintain pH to 7.2 - 7.4. 2) Follow label directions. 3) Add 1 lb. (16 oz.) of AQUA-ORG PLUS per 12,000 gallons of water weekly to help prevent pool problems. 4) Additional shock treatments maybe required to correct problems which are caused by visible algae, high bathing loads, heavy wind and rainstorms. Additional shock treatments will also remove unpleasant odors and eye irritation. 5) Do not re-enter pool until the free available chlorine residual is 1 - 4 ppm. 6) Shock treat your pool when opening, then weekly to prevent pool problems.

ROUTINE CHLORINATION: Throughout the pool season, add 7 to 10 oz. of AQUA-ORG PLUS per 10,000 gallons of pool water daily or as often as needed to maintain chlorine residual at 1-4 parts per million (ppm). If you have stabilized your pool using Stabilizer & Conditioner add 4 to 6 oz. per 10,000 gallons every other day or as often as needed to maintain chlorine residual at 1-4 ppm. Follow "METHOD OF APPLICATION" or "HOW TO USE". As a preventative treatment, you should shock treat your pool once a week to prevent pool problems.

ALGAE CONTROL: If the sides or bottom of your pool develop algae spots, direct AQUA-ORG PLUS as

close to the algae as possible. Follow "POOL SHOCK TREATMENT" directions. Note: Prolonged contact with pool surfaces may cause staining or bleaching. Immediately after treatment thoroughly clean pool by brushing surface of algae growth, vacuum and cycle through filter. If necessary, repeat the treatment. Pool should not be entered until the chlorine residual is 1 to 4 ppm.

1. Add 1.3 lbs of AQUA-ORG PLUS per 5,000 gallons or 2.6 lbs of AQUA-ORG PLUS per 10,000 gallons of pool water. If any granules settle to the bottom of the pool, use brush to disperse to assist in helping it to dissolve.
2. Once AQUA-ORG PLUS has completely been dispersed in the pool water, add 0.65 lbs of flocculent per 5,000 gallons or 1.3 lbs of flocculent per 10,000 gallons of pool water through the skimmer.
3. Leave the system circulating for 1 hour then turn off the filter pump and allow settling overnight.
4. The following day, vacuum the sediment to waste.
5. If the pool has not settled out or is not blue in color, repeat steps 1, 3 and 4.

WINTERIZING: While the water is still clear and clean, prepare for long periods of disuse by gradually adding 1 lb. of AQUA-ORG PLUS per 7,000 gallons of pool water. Follow "METHOD OF APPLICATION" or "HOW TO USE". Run the filter pump until completely dissolved. Cover the pool with a cover and prepare the heater, pump and filter components for winterizing by following manufacturer's directions.

Use 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, of the chlorinated effluent has been reduced to or below the maximum permitted by the controlling regulatory jurisdiction. On the average, satisfactory disinfection of secondary wastewater effluent can be obtained when the chlorine residual is 0.5 ppm after 15 minutes contact. Although the chlorine residual is the critical factor in disinfection, the importance of correlating chlorine residual with 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 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 should 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 2.5 to 25 oz. of AQUA-ORG PLUS with 100 gallons of water. Once control is evident, apply a 15 ppm available chlorine solution. Prepare this solution by mixing 0.38 oz. of AQUA-ORG PLUS with 100 gallons of water.

Collateral Booklet – Since not all end-uses can be printed on the finished product label, it will be provided in a separate booklet*

{Collateral Booklet – this information will be provided in a separate booklet when not all end-uses can be printed on the finished product label}

AQUA-ORG PLUS SUPERIOR QUALITY CALCIUM HYPOCHLORITE GRANULES

ACTIVE INGREDIENT

CALCIUM HYPOCHLORITE.....MIN. 65.00%
OTHER INGREDIENTS.....MAX. 35.00%
TOTAL.....MIN. 100.00%

Manufactured By: **Organic Industries Pvt. Ltd.**

S/163, GIDC, Dahej, Taluka Vagra, Dist. Bharuch, Gujarat-392130, India

Tel No: +91 22 41622828 (100 Lines) E-mail: info@organicgroup.co.in

EPA REG. NO. :

EPA EST. NO. : 95968-IND-001

SPA & HOT TUBS

HOW TO USE: For best results see “WATER BALANCE” section below before treatment. Maintain these conditions for proper operations by frequent testing with a test kit. Do not allow Cyanuric acid level to exceed 100 ppm. Spas and hot tubs must be drained every 30-90 days, more often under heavy use. Consult manufacturer’s recommendations concerning the compatibility of chlorine sanitizers with their equipment. Some oils, lotions, fragrances, cleansers, etc cause foaming or cloudy water and react with chlorine sanitizers to reduce their efficacy. If circulation is low, stir water after addition of chlorine or other chemicals.

WATER BALANCE: For best product performance, comfort and crystal clear water:

Maintain pH in the range of 7.2 to 7.6.

Maintain total alkalinity in the range of 60 to 120 parts per million (ppm).

Maintain calcium hardness above 200 ppm.

Use a reliable test kit that measures all these ranges.

Follow label directions for each product.

Reentry into treated pools is prohibited above levels of 4 ppm due to risk of bodily harm.

OPENING YOUR SPA (STARTUP) (Freshly Filled): For best results, see “WATER BALANCE” section above before treatment. Turn on circulation system and ensure that it is operating properly. Add one (1) oz. of Aqua-Org Plus to provide approximately 10 ppm available chlorine for each 500 gallons of water. Check the free available chlorine (FAC) and if less than 4-5 ppm, repeat as needed.

ROUTINE CHLORINATION FOR REGULAR USE: For best results, see “WATER BALANCE” section above before treatment. Turn on circulation system and ensure that it is operating properly. Scatter 0.3-0.5 oz. of Aqua-Org Plus per 500 gallons over the surface of the water. Test for free available chlorine and add additional product if necessary to maintain 3-5 ppm FAC while unit is in use.

SHOCK TREATMENT: After each use, shock treat with one oz. of Aqua-Org Plus to provide approximately 10 ppm available chlorine per 500 gallons of water, to control odors and algae. Repeat as needed.

ALGAE CONTROL: For preventative algae control, use your preferred algaecide product regularly. Follow the label directions on the algaecide.

EXTENDED NON-USE PERIOD: For best results, see "WATER BALANCE" section above before treatment. During extended non-use periods when the unit is not being used add 1.1 oz. of this product per 500 gallons twice a week with the circulation system running or as needed to maintain 3-5 ppm free available chlorine.

HUBBARD AND IMMERSION TANKS

Add 0.5 oz. of Aqua-Org Plus 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 oz. 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 oz. of Aqua-Org Plus per 1,000 gallons of water to obtain a minimum chlorine residual of 1 ppm, as determined by a suitable chlorine test kit, after satisfying any chlorine demand. Pool should 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.

SANITIZATION OF NONPOROUS FOOD CONTACT SURFACES

RINSE METHOD: A solution of 100 ppm available chlorine must 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 Aqua-Org Plus with 40 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 1 oz. of Aqua-Org Plus 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 must be used for general cleaning but must not be reused for sanitizing purposes.

IMMERSION METHOD: A solution of 100 ppm available chlorine must 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 Aqua-Org Plus with 40 gallons of water. If no test kit is available, prepare a sanitizing solution by thoroughly mixing 1 oz. of Aqua-Org Plus 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 50ppm 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.

FLOW/PRESSURE METHOD: Disassemble equipment and thoroughly clean after use. Assemble equipment in operating position prior to use. Prepare a volume of 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 1 oz. 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 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 200 ppm available chlorine sanitizing solution equal to 110% of volume capacity of the equipment by mixing the product in a ratio of 1 oz. 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 chlorine test kit. Repeat entire cleaning/sanitizing process if effluent contains less than 50 ppm available chlorine.

COARSE SPRAY METHOD: Pre-clean all surfaces after use. Use a 200 ppm available chlorine solution to control bacteria, mold or fungi and a 600 ppm solution to control bacteriophage. Prepare a 200 ppm sanitizing solution of sufficient size by thoroughly mixing the product in a ratio of 1 oz. product with 20 gallons of water. Prepare a 600 ppm solution by thoroughly mixing the product in a ratio of 3 oz. product with 20 gallons of water. Use spray equipment, which can resist hypochlorite solutions. Always empty and rinse spray equipments with potable water after use. Thoroughly spray 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.

SANITIZATION OF POROUS FOOD CONTACT SURFACES

RINSE METHOD: Prepare a 600 ppm solution by thoroughly mixing 3 oz. of Aqua-Org Plus 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 oz. of Aqua-Org Plus 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 oz. of Aqua-Org Plus with 20 gallons of water. Clean equipment in the normal manner. Prepare a 200 ppm sanitizing solution by thoroughly mixing 2 oz. of Aqua-Org Plus 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.

COARSE SPRAY METHOD: Pre-clean all surfaces after use. Prepare a 600 ppm available chlorine sanitizing solution of sufficient size by thoroughly mixing the product in a-ratio of 3 oz. product with 20 gallons of water. Use spray equipment which can resist hypochlorite solutions. Always empty and rinse spray equipment with potable water after use. Thoroughly spray all surfaces until wet allowing excess sanitizer to drain. Vacate area for at least 2 hours. Prior to using equipment rinse all surfaces with 200 ppm available chlorine solution. Prepare a 200 ppm sanitizing solution thoroughly mixing 1 oz. of Aqua-Org Plus with 20 gallons of water.

SANITIZATION OF NONPOROUS NON-FOOD CONTACT SURFACES

RINSE METHOD: Prepare a sanitizing solution by thoroughly mixing 1 oz. of Aqua-Org Plus 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 oz. of Aqua-Org Plus 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 use.

COARSE SPRAY 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 1 oz. product with 20

gallons of water. Use spray equipment which can resist hypochlorite solutions. Prior to using equipment, thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours

DISINFECTION OF NONPOROUS NON-FOOD CONTACT SURFACES

RINSE METHOD: Prepare a disinfecting solution by thoroughly mixing 3 oz. of Aqua-Org Plus 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 oz. of Aqua-Org Plus 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 sanitizer to drain. Do not rinse equipment with water after treatment.

SANITIZATION OF POROUS NON-FOOD CONTACT SURFACES

RINSE METHOD: Prepare a sanitizing solution by thoroughly mixing 3 oz. of Aqua-Org Plus with 20 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, 3 oz. of Aqua-Org Plus 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 use.

COARSE SPRAY METHOD: After cleaning, sanitize non-food contact surfaces with 600 ppm available chlorine by thoroughly mixing the product in a ratio of 3 oz. of Aqua-Org Plus with 20 gallons of water. Use spray equipment, which can resist hypochlorite solutions. Always empty and rinse spray equipment with potable water after use. Prior to using equipment, thoroughly spray all surfaces until wet, allowing excess sanitizer to drain. Vacate area for at least 2 hours.

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, 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 wastewater disinfection.

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

EFFLUENT SLIME CONTROL: Apply a 100 to 1,000 ppm available chlorine solution at a location which will allow complete mixing. Prepare this solution by mixing 2 to 20 oz. of Aqua-Org Plus 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 Aqua-Org Plus 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 10 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.

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

PUBLIC SYSTEMS: Add Aqua-Org Plus at the rate of 1 oz. of this product to 6000 gallons of water to be treated using a hypochlorinator until a free available chlorine residual of at least 0.2 ppm and no more than 0.6 ppm is attained throughout the distribution system. Check water frequently with a chlorine test kit. Bacteriological sampling must be conducted at a frequency no less than that prescribed by the National Primary Drinking Water Regulations. Contact your local Health Department for further details.

INDIVIDUAL SYSTEMS: DUG WELLS: Upon completion of the casing (lining) wash the interior of the casing (lining) with 100 ppm available chlorine solution using a stiff brush. This solution can be made by thoroughly mixing 1 oz. of Aqua-Org Plus 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.

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 Aqua-Org Plus 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 necessitate the use of special methods for introduction of the sanitizer into the well. Consult your local Health Department for further details.

INDIVIDUAL WATER SYSTEMS: FLOWING ARTESIAN WELLS: Artesian wells generally do not require disinfection. If analyses indicate persistent contamination, the well must be disinfected. 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 Aqua-Org Plus. 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 Aqua-Org Plus 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 several times.

PUBLIC WATER SYSTEMS

RESERVOIRS - ALGAE CONTROL: Hypochlorinate streams feeding the reservoir. Suitable feeding points must be selected on each stream at least 50 yards upstream from the point of entry into the reservoir. Apply Aqua-Org Plus at a rate of 10 to 20 ounces per 10,000 gallons of water volume to provide 5 to 10 ppm available chlorine. In irrigation canals or other high stream flow areas, 4.5 oz. to 9 oz. per minute per 10 cu. ft. per second flow rate until 5 to 10 ppm available chlorine is achieved at the downstream end of the intended treatment section

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 Aqua-Org Plus 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 4 oz. of Aqua-Org Plus 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 FILTERSAND: Apply 16 oz. of Aqua-Org Plus 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 1 oz. of Aqua-Org Plus 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 must then be 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 4 oz. of Aqua-Org Plus for each 5 cubic feet capacity (approximately 500 ppm available chlorine). Fill to working capacity and let stand for at least 4 hours. Drain and place in service. If previous treatment is not practical, surfaces must be sprayed with a solution containing 1 oz. of Aqua-Org Plus for each 5 gallons of water (approximately 1000 ppm available chlorine). After drying, flush with water and return to service.

EMERGENCY DISINFECTION AFTER FLOODS

WELLS: Thoroughly flush contaminated casing with a 500 ppm available chlorine solution. Prepare this solution by mixing 1 oz. of Aqua-Org Plus 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 chlorinating solution to produce 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 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 0.2 ppm available chlorine residual in all parts of the reservoir.

BASINS, TANKS, FLUMES, ETC.: Thoroughly clean all equipment, and then apply 4 oz. of Aqua-Org Plus 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 1 oz. of Aqua-Org Plus 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 16 oz. of Aqua-Org Plus 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 oz. per 20 sq. ft. 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 oz. of Aqua-Org Plus 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.

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 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 1 oz. of Aqua-Org Plus 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 Aqua-Org Plus by means of a hypochlorinator. Stop water flow when a chlorine residual test of 50 ppm is obtained at the low pressure end of the new main section after a 24 hour retention time. When chlorination is completed, the system must be flushed free of all heavily chlorinated water.

COOLING TOWER/EVAPORATIVE CONDENSER WATER

SLUG FEED METHOD - Initial dose: When system is noticeably fouled, apply 10 to 20 oz. of Aqua-Org Plus 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 2 oz. of Aqua-Org Plus 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 10 to 20 oz. of Aqua-Org Plus 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 blow down. **Subsequent Dose:** When microbial control is evident, add 2 oz. of Aqua-Org Plus per 10,000 gallons of water in the system daily, or as

needed to maintain control and keep the chlorine residual at 1 ppm. 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 blow down. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, apply 10 to 20 oz. of Aqua-Org Plus per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine.

Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1 oz. of Aqua-Org Plus per 3,000 gallons of water lost by blow down to maintain a 1 ppm residual. [Badly fouled systems must be cleaned before treatment is begun.]

LAUNDRY SANITIZERS: HOUSEHOLD LAUNDRY SANITIZERS

IN SOAKING SUDS: Thoroughly mix 1 Tbs. of Aqua-Org Plus to 10 gallons of wash water to provide 200 ppm available chlorine. Wait 5 minutes, and 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 Tbs. of Aqua-Org Plus 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 oz. of Aqua-Org Plus with 20 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution in to the pre-wash 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 the product if the available chlorine level has dropped below 200 ppm.

FEDERALLY INSPECTED MEAT & POULTRY PLANT LAUNDRY SANITIZERS: Wet fabrics which contact meat or poultry products directly or indirectly must be spun dry prior to sanitization. Thoroughly mix 1 oz. of Aqua-Org Plus with 20 gallons of water to yield 200 ppm available chlorine. Promptly after mixing the sanitizer, add the solution into the pre-wash prior to washing fabrics 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 Aqua-Org Plus if the available chlorine level has dropped below 200 ppm. Thoroughly rinse fabrics with potable water at the end of the laundering operation.

FARM PREMISES

Remove all animals, poultry, and feed from premises, vehicles, and enclosures. Remove all litter and manure from floors, walls, and surfaces of bams, 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 oz. of Aqua-Org Plus 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.

PULP AND PAPER MILL PROCESS WATER SYSTEMS

SLUG FEED METHOD - Initial Dose: When system is noticeably fouled, apply 10 to 20 oz. of Aqua-Org Plus 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 2 oz. of Aqua-Org Plus 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 10 to 20 oz. of Aqua-Org Plus 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 blow down.

Subsequent Dose: When microbial control is evident, add 2 oz. of Aqua-Org Plus per 10,000 gallons of water in the system daily, or as needed to maintain control and keep the chlorine residual at 1 ppm. 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 blow down. Badly fouled systems must be cleaned before treatment is begun.

CONTINUOUS FEED METHOD - Initial Dose: When system is noticeably fouled, apply 10 to 20 oz. of Aqua-Org Plus per 10,000 gallons of water in the system to obtain from 5 to 10 ppm available chlorine. Subsequent Dose: Maintain this treatment level by starting a continuous feed of 1 oz. of Aqua-Org Plus per 1,000 gallons of water lost by blow down to maintain a 1 ppm residual. Badly fouled systems must be cleaned before treatment is begun.

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 1 ton of potatoes. Thoroughly mix 1 oz. of Aqua-Org Plus to 10 gallons of water to obtain 500 ppm available chlorine.

DISINFECT LEAF CUTTING BEE CELLS AND BEE BOARDS: Immerse 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 thoroughly mixing 1/4 Tsp. of Aqua-Org Plus to 200 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.

FRUIT AND VEGETABLE WASHING: Thoroughly clean all fruits and vegetables in a wash tank. Thoroughly mix 1 oz. of Aqua-Org Plus in 200 gallons of water to make a sanitizing solution of 25 ppm available chlorine. After draining the tank, submerge fruit or vegetables for 2 minutes in a second wash tank containing the re-circulating sanitizing solution. Spray rinse vegetables with the sanitizing solution prior to packaging. Rinse fruit with potable water only prior to packaging.

FOOD EGG SANITIZATION: Thoroughly clean all eggs. Thoroughly mix 1 oz. of Aqua-Org Plus with 20 gallons of warm water to produce a 200 ppm available chlorine solution. The sanitizer temperature must 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 must not be reused to sanitize eggs.

SEEDS: To control bacterial spot (*Xanthomonas vesicatoris*) on Pimento 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. The solution must be made by mixing 8 oz. of Aqua-Org Plus with 1 gallon of water.

MUSHROOMS: To control bacterial blotch (*Pseudomonas tolaasii*), use a 100 to 200 ppm solution prior to

watering mushroom production surfaces. This solution must be made by mixing 0.2 to 0.4 oz. of Aqua-Org Plus 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. Aqua-Org Plus must be applied directly to pins to control small infection foci. Apply 1.5 to 2.0 oz. per square foot of growing space.

AQUACULTURE USES

FISH PONDS: Remove fish from ponds prior to treatment. Thoroughly mix 20 oz. of Aqua-Org Plus into 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 1 oz. of Aqua-Org Plus to 20 gallons of water to obtain 200 ppm available chlorine. Porous equipment must soak for one hour.

MAINE LOBSTER PONDS: Remove lobsters, seaweed, etc. from ponds prior to treatment. Drain the pond. Thoroughly mix 1.200 oz. of Aqua-Org Plus to 10,000 gallons of water to obtain at least 600 ppm available chlorine. Apply so that all barrows, gates, rock and dam are treated with product. Permit high tide to fill the pond and then close 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 pond. Not approved for use in the State of California.

CONDITIONING LIVE OYSTERS: Thoroughly mix 1 oz. of Aqua-Org Plus to 10,000 gallons of water at 50 to 70° F to obtain 0.5 ppm available chlorine. Expose oysters to the solution for at least 15 minutes, monitoring the available chlorine level so that it does not fall below 0.05 ppm. Repeat entire process if the available chlorine level drops below 0.05 ppm or the temperature falls below 50°F. Not approved for use in the State of California.

CONTROL OF SCAVENGERS IN FISH HATCHERY PONDS: Prepare a solution containing 200 ppm of available chlorine by mixing 0.5 oz. of Aqua-Org Plus 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 zero ppm, as determined by a test kit.

FOOD PROCESSING PLANTS

TREATMENT OF FEDERALLY INSPECTED MEAT & POULTRY• PLANT POTABLE WATER SUPPLIES: Solutions of Aqua-Org Plus containing 1% available chlorine will effectively disinfect the water supply in Federally Inspected Meat & Poultry Plants. The solution must be fed 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 disinfection. A regular testing program must be initiated to make sure that the proper chlorine residuals are present at all times. To make a 1% solution, mix 10 oz of Aqua-Org Plus into 5 gallons of water.

COOLING WATER IN CANNERIES: Solutions of Aqua-Org Plus containing 1% available chlorine will sanitize cooling water, protect canned goods from contamination and spoilage and prevent staining of cans. The solution must be fed into cooling tanks or channels to reach a concentration of 2 ppm available chlorine. Check every two or three hours to be sure that an available chlorine residual of 2 ppm is maintained throughout the cooling system. To make a 1% solution, mix 10 oz. of Aqua-Org Plus into 5 gallons of water.

POULTRY DRINKING WATER: Spray or flush with a solution containing 1 oz. of Aqua-Org Plus for every gallon of water. Treat poultry drinking water to a dosage of 1 to 5 oz. of Aqua-Org Plus per 5,000 gallons of water. Not approved for use in the State of California.

FISH FILLETING: Eviscerated and degilled fish removed from the fishing vessel are placed in a wash tank of seawater or fresh water which has been treated with enough product to produce a chlorine residual of 25 ppm as determined by a test kit. Remove fish from treated water 24 to 48 hours before filleting. After scaling, the fish are again washed in a 25 ppm solution and are ready for filleting.

PECAN CRACKING AND DYEING: Prepare a 1,000 ppm available chlorine soaking solution by adding 1 oz. of Aqua-Org Plus for each 5 gallons of water to obtain a 1,000 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°F for 1 minute. Transfer to a solution containing 100 oz. of Aqua-Org Plus for each 100 gallons of water (5,000 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.

CONTROL OF BACTERIA, ALGAE, SLIME BUILD-UP AND CLOGGING IN SPECIFIED IRRIGATION SYSTEMS:

Aqua-Org Plus is mixed with water to product a chlorine solution. Always add Aqua-Org Plus to water, never add water to Aqua-Org Plus. To product a 0.5% available chlorine solution, add 1.0 dry oz. of Aqua-Org Plus to one (1) gallon of water. This solution is fed by gravity or a metering pump to the irrigation system water to achieve the desired available chlorine strength in the water. The Application Rates section provides the levels of free residual chlorine needed to prevent or address bio-fouling occurring in drip, trickle irrigation systems. When utilizing a metering pump, refer to the instruction manual for varying the output of the pump. Aqua-Org Plus is to be applied through drip/trickle and sprinkler irrigation systems only for agricultural crops only where this manner of use will not cause crop damage.]

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 Aqua-Org Plus is necessary. The 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 is 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 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 10-20 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 consume available chlorine resulting in a concentration that is less than the concentration desired as specific 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, near the end of the irrigation sequence, but early enough to establish the desired free chlorine concentration throughout the system being treated.

Apply Aqua-Org Plus upstream of the filter to help keep 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 Aqua-Org Plus when fertilizers, herbicides, and insecticides are being injected since they will consume the available chlorine and 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.