PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

DANGER CORROSIVE. Do not enter an enclosed area without proper respiratory protection. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through skin. Harmful if swallowed. Do not breathe vapors or spray mist. Do not get in eyes, on skin, or on clothing. Wear goggles and rubber gloves. Wash thoroughly with soap and water after handling and before eating, drinking, or using tobacco. Remove contaminated clothing and wash before reuse.

Physical or Chemical Hazards: Strong oxidizing agent. Corrosive. Mix only with water at ambient (room) temperature. Product must be diluted in accordance with label directions prior to use. This product is not corrosive, however, at temperatures exceeding 150°F, decomposition occurs releasing oxides. The oxygen released could initiate combustion. Environmental Hazards: This pesticide is toxic to birds, fish and aquatic invertebrates. Caution should be used when applying indoors because pets may be at risk. Do not discharge effluent containing this product into lakes, streams, ponds, etc., or other waterbodies unless with the approval of the National Pollution Discharge System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product into sewage systems without previously notifying the local sewage plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

Storage and Disposal

Storage: Never reuse this product in the original container after it has been removed. Avoid all contaminants, especially dirt, caustic, reducing agents, and metals. Contamination and impurities will reduce shelf life and can induce decomposition. In case of decomposition, isolate container, dispose container with cool water and dilute this product with large volumes of water. Avoid damage to containers. Keep container closed at all times when not in use. Do not freeze. To minimize product quality, store at temperatures below 86°F. Precure for Leak or Spill: Stop leak if this can be done without risk. Shut off ignition sources no flames, smoking, fires, spark producing tools. Keep combustible and organic materials away. Flush spilled material with large quantities of water. Unlined material should not enter confined spaces. Pesticide Disposal: Pesticide waste are acutely hazardous. Improper disposal of excess pesticide, spray mixture, or rinse is a violation of Federal Law. If these wastes cannot be disposed of by according to label instructions, contact your State Pesticide or Environmental Control Agency, or Hazardous Waste representative at the nearest EPA Regional Office for guidance. If a material has been spilled, an acceptable method of disposal is to dilute with at least 20 volumes of water followed by drain into suitable treatment system in accordance with Local, State and Federal environmental laws, rules, regulations, and other requirements. Rather acceptable methods of disposal may vary by location, regulatory agencies should be contacted prior to disposal. Chemco PAA 15%, which is to be discarded, should be disposed of as hazardous waste after contacting the appropriate Local, State or Federal agency to determine proper procedures.

Container Disposal: Nonrefillable container. Do not reuse or refill this container.

Clean container promptly after emptying. Offer for recycling if available. Triple rinse as follows: Empty the remaining contents into an application equipment or a mix tank. Fill the container 1/4 full with water. Repeat several times and rinse thoroughly. Allow to stand 24 hours, and then pour out the water and rinse thoroughly. Allow to stand at least one complete revolution, for 30 seconds. Stand the container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its side and roll it back and forth. Empty the rinse into application equipment or a mix tank or store rinse for later use or disposal. Repeat this procedure two more times.

Directions For Use

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

SANITIZATION

Sanitizing Food Contact Surfaces: Sanitize with a concentration of 0.7-2.0 fl. oz. of this product dissolved in 10 gallons of water (93-260 ppm active peroxyacetic acid). Use immersion, coarse spray or circulating techniques as appropriate to the equipment. All surfaces should be exposed to sanitizing solution for a period of at least 60 seconds or more as specified by a governing code. Drain thoroughly and allow to air dry. Do not rinse.

Sanitization of Conveyors and Equipment for Meat, Poultry, Seafood, Fruit, Nuts and Vegetables: This product is effective against the gram negative and gram positive organisms Staphylococcus aureus and Escherichia coli. For use in the static or continuous sanitizing, washing or rinsing of conveyors, sizers, saws and equipment, apply a solution of this product using a recommended 0.7-2.0 fl. oz. per 10 gallons of water (93-260 ppm active peroxyacetic acid). Preheat the conveyor or equipment using coarse spray or similar means of wetting surfaces, so as to prevent puddling. Allow sanitizing to thoroughly wet surfaces for a minimum of 60 seconds contact time. No rinsing is needed.

Final Bottle or Container Rinse: This product may be used as a final sanitizer rinse for returnable and non-returnable bottles or containers at 93-260 ppm active peroxyacetic acid (0.7-2.0 fl. oz. Chemco PAA 15%, 15 ppm in 10 gallons of water). The container should be drained as much as is practical prior to filling operations.

Combination Disinfection and Cleaning: Chemco PAA 15% is effective against Staphylococcus aureus and Salmonella enteritidis at 1.5 fl. oz. of this product per 10 gallons of water (120 ppm active peroxyacetic acid) in hard water (400 ppm as CaCO3) and 5% organic soil on hard nonporous surfaces. For heavily soiled areas a pre-cleaning step is required. Apply solution with a mop, cloth, sponge, brush, or by soaking, spraying, or immersion so as to wet all surfaces thoroughly. Allow to remain wet for 10 minutes, then remove excess solution and entrapped soil with a clean wet mop, cloth, wet vacuum pickup or by draining. Prepare a fresh solution daily or when it becomes soiled or diluted.

REVERSE OSMOSIS (RO) NANO AND ULTRA FILTRATION CLEANING: Chemco PAA 15% may be used in the sanitization of nano-filtration (NF) and ultra-filtration (UF) reverse osmosis (RO) membranes and nanofiltering and ultra-filtrating systems. This product is not for use in kidney dialysis equipment. Do not use the intermittent or continuous dosing methods for nano or ultra-filtration feed or drinking water applications. This product may not totally eliminate all vegetative microorganisms in RO or NF or UF membranes and their associated piping systems due to their construction or assembly, but can be relied upon to reduce the number of microorganisms to acceptable levels when used as directed. Prior to using this product check with manufacturer to confirm compatibility of membranes with various types or concentrations of peroxyacetic acid solutions.

Batch Sanitization of NF, UF and RO Systems: Isolate incompatible equipment such as carbon filters and ion exchangers. Clean system with an appropriate cleaner and follow with RO permeate water or potable water. Sanitize metal deposits if necessary with an acidic cleaner and rinse as before. Fill entire system with water and add up to 0.5% of this product by volume. This will equal 680 ppm peroxyacetic acid and 1000 ppm hydrogen peroxide. Recirculate the sanitizing solution through the piping and membrane system at 20°F for 10 minutes minimum, or up to 2 hours, depending on the severity of the cleaning to be done. Open and close process valves and solenoids to be sure all parts are in contact with the solution. Rinse the system with RO permeate or potable water until residual peroxoygen conc. is below 1 ppm.

Continuous or Intermittent Addition: For continuous addition (dosing) for RO systems, use 2-5 ppm of active peroxyacetic acid, which equals 1.5-3.7 fl. oz. of this product per 1000 gallons of permeate. Do not exceed 93 ppm active peroxyacetic acid (0.37 fl. oz. per 1000 gallons of permeate, 5 ppm). For intermittent dosing, use 0.7 fl. oz. of this product per 10 gallons of feed water. Continuous or intermittent dosing of this product is not allowed for use in NF or UF systems for on-line food or drinking water applications.

BIOPOLLUTION CONTROL IN PULP, PAPER AND PAPERBOARD WASTE AND WATER SYSTEMS:

Influent Water Systems: Chemco PAA 15% should be added continuously to incoming fresh water streams (nonpotable only) at dosages ranging from 0.11-2.0 lbs (1.5-27 fl. oz.) of this product per 1000 gallons of raw or process water (2.0-56 ppm peroxyacetic acid). Adjust dosage as necessary to maintain microbiological control. Mill Process Waters: Intermittent Feed - Chemco PAA 15% may be fed intermittently (for example:

CHEMCO PAA 15% (ANTIMICROBIAL SOLUTION)

FOR USE IN ORGANIC PRODUCTION:

Chemco PAA 15% is a peroxyacetic acid-based microbiocide developed for Equipment, Sanitizing and Disinfecting, Bacteria, Slime and Odor Control in: Pulp and Paper Mill Systems; Fruit and Vegetable Process Water, and Bacteria and Algae Control in Recirculating and Agricultural Water Systems.

ACTIVE INGREDIENT:

Peroxyacetic Acid 15.0%

Hydrogen Peroxide 22.0%

INERT INGREDIENTS:

Water 63.0%

TOTAL 100.0%

EPA Registration No: 63838-2-10693 EPA Est. No. 63838-CA-01; 60156-IL-01:

63838-AR-01

Before Using This Product, Please Read This Entire Label Carefully.

KEEP OUT OF REACH OF CHILDREN

DANGER

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip 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 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 IN EYES: Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses of present after the first 5 minutes, then continue rinsing eye.

Call a poison control center or doctor for treatment advice.

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

NOTE TO PHYSICIAN: Probable mucosal damage may contaminate the use of gastric lavage.

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2-3 hours per 8 hour shift) at dosages ranging from 0.5 lbs to 1.2 lb (7-16 fl. oz.) of this product per ton (dry basis) of pulp or paper produced. This dosage is equivalent to 37-90 ppm peroxycetic acid. Repeat as necessary when the peroxycetic acid concentration reaches less than 2 ppm.

Continuous Feed - Chemco PAA 15% should be fed continuously at dosages ranging from 0.11-1.2 lb (1.5-16 fl. oz) of this product per ton (dry basis) of pulp or paper produced. This dosage is equivalent to 8.0-50 ppm peroxycetic acid. Shock (slug) Dose - Chemco PAA 15% may be used to shock dose systems requiring a high level of biofouling control. Use rates ranging from 1-8 lbs (13.5-108 fl. oz.) of this product per ton (dry basis) of pulp or paper produced may be necessary. This dosage is equivalent to 75-600 ppm peroxycetic acid. Shock dose every 1-3 hrs as necessary until biofouling control is evident. Thereafter, revert to continuous or intermittent feed methods.

CONTROL OF SLIME FORMING BACTERIA AND BIOFOULING IN COOLING WATER SYSTEMS (COOLING TOWERS, EVAPORATIVE CONDENSERS, AIR WASHERS) AND ORNAMENTAL OR RECREATIONAL WATER FEATURES

Severely fouled systems should be cleaned before adding the Chemco PAA 15% solution. Chemco PAA 15% should be added in the water system directly, and not mixed with any other chemicals or additives. Never add this product into any feeding device, such as shot feeders, filter housings, by-pass feeders, or miscellaneous piping of any kind, because dangerous acute decomposition can occur. Discontinue the use of chlorine or bromine products prior to using Chemco PAA 15%. Contamination with other chemicals could result in product decomposition. Add Chemco PAA 15% only to water at a point in the system where uniform mixing and even distribution will occur. For shock (slug) treatment for moderately to severely fouled systems add 5-20 fl. oz. of this product per 1000 gallons of process water (7.2-27 ppm peroxycetic acid). Repeat as necessary until microbiological control is evident. Thereafter, to maintain control use 1.5-7.5 fl. oz. of Chemco PAA 15% per 1000 gallons of process water (2.1-10 ppm of peroxycetic acid) as a continuous treatment method. Continuous dosing methods usually require 1.5-5.0 fl. oz. per 1000 gallons of water (2.7-7 ppm peroxycetic acid) to achieve adequate results. Intermittent dosing treatment usually require doses cycles of a minimum once per day, up to 6 times per 24 hours. Recommended rates for intermittent dose cycles are 5-10 fl. oz. of Chemco PAA 15% per 1000 gallons of process water (7.1-14 ppm peroxycetic acid).

AIR WASHERS: This product may be used to control bacteria and biofouling in industrial air washing/scrubbing systems. The air washer must have operational and effective mist elimination systems. Prior to use of this product, heavily fouled systems must be pre-cleaned using the appropriate cleaner. Continuous dosing methods will require 2-7 ppm and intermittent dosing methods require 7-14 ppm (as peroxycetic acid), as described in the previous two paragraphs, depending on the type of system and the level of microbiological control desired.

TREATMENT OF FRUIT AND VEGETABLE PROCESS WATER SYSTEMS: Chemco PAA 15% can be used in water or ice that contacts raw or fresh, post-harvest or further processed fruits and vegetables for the control of bacteria and fungi.

Batch, Continuous or Spray System Processes: Fill vessel containing fruits and vegetables with known amount of water. Ensure that water is circulating in vessel if using the submersed method. Add this product to no more than 533 ppm (wt/vol) total product (80 ppm residual peroxycetic acid) to the use solution. This can be accomplished by initially adding 53.3 grams (47.3 ml) of this product per 100 liters of water, or 1.0 fl. oz. per 16.4 gallons of water. The fruits and vegetables can be continuously sprayed (using coarse spray) or submerged (dipped) in the resulting solution. Periodic or continuous addition of this product to maintain the required concentration may be added as necessary. Contact time of 60 seconds is recommended to insure efficacy. A potable water rinse is not required. This product is not intended for use in primary flumes prior to the point of the first dewatering stage.

AGRICULTURAL OR HORTICULTURAL USES: There is a Restricted-entry-Interval of zero (0) hours after the use of this product. This product should never be mixed or combined with any other pesticide or fertilizer. Upon soil contact this diluted product decomposes rapidly to oxygen, carbon dioxide and water. This product may be harmful to fish if exposed on a continuous basis at concentrations of 1 ppm or more of active peroxycetic acid. Meter this product into pressurized pipes using a plastic or stainless steel injection/backflow device installed far enough upstream from the equipment to insure thorough mixing. For open flowing bodies of water, apply this product as far upstream as possible to allow adequate mixing prior to the flow entering any larger body of water. If open pouring of this product is required, pour product as close to the surface of the water as possible to reduce odor exposure.

Treatment of Agricultural or Irrigation Water Systems (and filters, humidification systems, storage tanks, ponds, reservoirs, canals) For the control of sulfates, odors, algae and algae in water systems, apply this product to 3-10 ppm active peroxycetic acid. This feed rate equals 15-75 fl. oz per 10,000 gallons of water. Repeat dose as necessary to maintain control, which will vary with seasonal conditions. For prevention of algae, some systems may require continuous low level dosing during warm sunny periods (2-5 ppm peroxycetic acid). Drip Irrigation Systems: To clean slime and algae from drip system filters, tapes and emitters, meter this product at the rate of 7.5-15 fl. oz. per 1000 gallons of water (10-20 ppm peroxycetic acid). When required during normal irrigation cycles, use this product at the recommended dose for a minimum of 30 minutes. Thereafter, the irrigation cycle should be discontinued and the line should not be flushed.

D.O.T. and Haz Mat Information: UN3109, Organic Peroxide, Type F, Liquid (peroxycetic acid), 5.2, (8), PGII

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