FORMULA 3080
AN AQUEOUS SOLTION OF CHLORINE DIOXIDE
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
Caution: Causes respiratory irritation. Avoid contact with eyes, skin, or clothing.
If swallowed, absorbed through the skin, or inhaled. Wash thoroughly with soap and
water after handling, and before eating, drinking, or smoking. Using tobacco, or
using the toilet. Handlers applying chlorine dioxide in an occupational setting must
wear gloves. People must follow the precautions during sprayer operations. For
spray operations, user must wear a half-face respirator with dust gas cartridges and
99% filter.
ENVIRONMENTAL HAZARDS
This product is toxic to fish and aquatic organisms. Do not discharge effluent containing this
product into streams, ponds, estuaries, oceans, or other waters unless in accordance
with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit
and the permit issuing authority has been notified in writing prior to discharge. Do not discharge
effluent containing this product to sewers systems without notifying the local sewage
disposal treatment plant authority. For guidance, contact your State Water Board or
Regional Office of the EPA.
PHYSICAL AND CHEMICAL HAZARDS
Chlorine dioxide is a strong oxidizing agent. Combustion with materials such as carbon
and organic materials may cause a chemical reaction resulting in explosion of
carbon dioxide and heat. Explosion and fire can result. Keep all chemicals and
foreign material away from this solution.
STORAGE AND DISPOSAL
Do not store unopened or open bottles. Store in original containers.
CONTAINER DISPOSAL: Nonhazardous. Do not reuse or resell this container. Follow
instructions for hazardous waste disposal.
REGRADING: This product contains chlorine dioxide and will degrade in
the presence of moisture. Follow instructions for hazardous waste disposal.
NOTE TO RECYCLERS: Do not reuse or resell this container.
HOT LINE NUMBERS
For chemical spill information call 1-800-424-4370. For emergency medical
information call the National Poison Information Center at 1-800-222-1222.
PRODUCT NO. 3080000
NET WEIGHT 2752 LBS. (330 GAL.)
GARRETT
50 Ingold Road
Burlington, CA 91010-2206
IN THE UNITED STATES (800) 667-5081
OUTSIDE THE UNITED STATES (559) 373-6790
www.garrettalan.com
FORMULA 3080 contains 2000 ppm (300 g/l) chlorine dioxide
KEEP OUT OF REACH OF CHILDREN
CAUTION
FIRST AID
IF ON SKIN OR CLOTHES
• Remove contaminated clothing
• Rinsed exposed skin immediately with plenty of water for 15 to 20 minutes.
• Call a poison control center or doctor immediately for treatment advice.
IF SWALLOWED
• If person is not breathing, give CPR and then call an ambulance and artificial
• Cardiac resuscitation (CPR) if necessary. Use a CPR mask
• Do not give anything by mouth to an unconscious person.
• If person is breathing, give CPR if necessary. Use a CPR mask
• Call a poison control center or doctor immediately for treatment advice.
IF INHALED
• Hold open nose and mouth tightly and gently with water for 15-20 minutes.
• Remove contact lenses, if present, after the first 5 minutes. Can continue
• Using mouthwash
• Call a poison control center or doctor immediately for treatment advice.
NOTE TO POISON CONTROL: Provide exact measurement may contaminate the use of gases.
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FORMULA 3080
SANITIZER FOR NON-FOOD CONTACT SURFACES IN DAIRIES, BREWERIES AND BOTTLING PLANTS

Prior to sanitation, remove all gross dirt from areas to be sanitized and thoroughly clean surfaces with a suitable detergent. Prepare a maximum 500 ppm solution of FORMULA 3080 by using a dilution ratio of 1:1. Apply the non-food contact sanitizing solution to hard, non-porous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge, sprayer, or immersion. Treated surfaces must remain wet for at least one minute. Wipe dry with a cloth, sponge or mop or allow to air dry. The diluted FORMULA 3080 may be茚帽ing if desired. For sanitizing operations, user must wear a half-face respirator with acid gas cartridges and N8 filter. This product is effective against Bacillus cereus, Staphylococcus aureus (ATCC 6538), and Staphylococcus epidermidis (ATCC 6538).

FOOD PROCESSING PLANTS, FOOD HANDLING ESTABLISHMENTS AND RESTAURANTS

This product can be used to control miscellaneous odors and soil in food processing waters and to sanitize previously cleaned food contact surfaces.

SANITIZING SOLUTION FOR NON-FOOD CONTACT SURFACES

Prior to sanitation, remove all gross food particles and soil by use of a pre-scrub, pre-scrub or pre-scrub treatment. Prepare a maximum 300 ppm solution of FORMULA 3080 by using a dilution ratio of 1:1. Using a commercial sprayer, saturate all surfaces with the diluted FORMULA 3080. Allow surfaces to remain wet for at least 1 minute. The diluted FORMULA 3080 may be茚帽ing if desired. For sanitizing operations, user must wear a half-face respirator with acid gas cartridges and N8 filter. This product is effective against Bacillus cereus, Staphylococcus aureus (ATCC 6538), and Staphylococcus epidermidis (ATCC 6538).

SANITIZER FOR FOOD-PROCESSING EQUIPMENT

In DAIRIES, BREWERIES AND BOTTLING PLANTS

Prior to sanitation, remove all gross food particles and soil by use of a pre-scrub, pre-scrub or pre-scrub treatment. This product is effective against Bacillus cereus, Staphylococcus aureus (ATCC 6538), and Staphylococcus epidermidis (ATCC 6538). Clean all lines, tanks, or surfaces with a suitable detergent followed by a water rinse. Prepare a maximum 100 ppm solution of FORMULA 3080 by using a dilution ratio of 1:1. For use on raw agricultural commodities. Milk and water tankers are treated using a chemical feed pump or injection system and applied at the same rate as 20 gallons of water per 1000 gallons of liquid feed (dilution ratio of 1:1). The diluted FORMULA 3080 may be茚帽ing if desired. For sanitizing operations, user must wear a half-face respirator with acid gas cartridges and N8 filter. This product is effective against Bacillus cereus, Staphylococcus aureus (ATCC 6538), and Staphylococcus epidermidis (ATCC 6538). Note: Chemical feed pumps and injectors must be disinfectant resistant for clean operation. Avoidable chlorine dioxide levels should be confirmed using an approved chlorine dioxide test kit.

TREATMENT FOR RED MEAT INCLUDING PESTS AND ORGANISMS

When used as a spray or dip solution to red meat products including meat organs, processed, comminuted, or formed meat products, and CO2 Solutions 3000 in water at a maximum dose of 100 ppm (300 mg/L) (dilution ratio of 1:1) to maintain a maximum residual chlorine dioxide concentration of 0.1 ppm (dilution ratio of 100:1). Adjusted feed dosage to maintain 2 ppm (30 mg/L) residual measured immediately following the spray or the dip solution application. Therefore applying chlorine dioxide is an occupational health and safety hazard, use gloves.

TREATMENT TO EXTEND FRESHNESS AND SHELF LIFE OF UNCUT AND IMPERFECT FRUITS AND VEGETABLES

1) Before treatment, wash and rinse vegetables should be washed and thoroughly rinsed with clean, potable water.

2) Aqueous FORMULA 3080 to water in an immersion tank or tank at a dose of 0.5 ppm (5 mg/L) chlorine dioxide (a dilution ratio of 1:10). Immerse the previously cleaned fruits and vegetables and allow them to soak for at least 1 minute.

HAYMANN WATER SYSTEMS

TREATMENT OF POTABLE WATER FOR HUMAN CONSUMPTION

For most municipal and other potable water systems, add FORMULA 3080 to the water at a dose of between 1 ppm (3 mg/L) and 2 ppm (6 mg/L) chlorine dioxide (dilution ratio 1600:1). This product is effective against the following bacteria: Pseudomonas and Serratia. Under US EPA regulations, drinking water treated for human consumption may not contain more than 3 ppm (9 mg/L) residual chlorine dioxide and no more than 1 ppm (3 mg/L) chlorine dioxide.

MUNICIPAL WELLS WATER

For most municipal water systems, add FORMULA 3080 to the water at a dose of 1 ppm (3 mg/L) chlorine dioxide (dilution ratio 1600:1). Under US EPA regulations, drinking water treated for human consumption may not contain more than 3 ppm (9 mg/L) residual chlorine dioxide and no more than 1 ppm (3 mg/L) chlorine dioxide.

INDUSTRIAL PROCESSES AND WATER SYSTEMS

TREATMENT OF COOLING WATER SYSTEMS, PROCESS WATER SYSTEMS, FLUID WATER AND COOLING TOWERS TO CONTROL SLIME FORMING ALGAE

Add FORMULA 3080 to the water at a dose of 0 ppm (0 mg/L) chlorine dioxide (a dilution ratio of 1:1) and circulate or let stand overnight. Drain and allow water to stand before reuse. To prevent slime growth after initial treatment, add FORMULA 3080 to the water at a dose of 2 ppm (6 mg/L) chlorine dioxide (dilution ratio of 100:1) to 4 ppm (12 mg/L) chlorine dioxide for 5-10 minutes.

FOR MICROBIAL CONTROL IN DIRECT COOLING WATER SYSTEMS

FORMULA 3080 may be batch loaded or metered into circulating cooling systems at the rate of 0.1 ppm (3 mg/L), a dilution ratio of 1000:1. Concentrations should be monitored to maintain the 0.5 ppm level.

TREATMENT OF INDUSTRIAL AIR WASHERS, HUMIDIFIERS, AND EVAPORATIVE COOLERS

FORMULA 3080 should be added to the air washer using with the use of a metering pump. FORMULA 3080 can be added on a continuous basis or intermittently as necessary to maintain control. For the control of bacteria and fungi in industrial air washer systems add at a rate of 1 ppm (3 mg/L), a dilution ratio of 1000:1.0. Note: For use only in industrial air washer systems that maintain effective microbial control.

PREVENTION OF CORROSION AND SUSPENDED BACTERIA IN WATER AND DRAINAGE SYSTEMS, COMMERCIAL RECOVERY REACTION操作

Water used to transport wet systems or vessels should contain 10-100 ppm (FORMULA 2080) depending on water quality and length of time the equipment will remain idle.

CONDITIONS OF SALE AND WARRANTY

Garrett Colloids, The Supernormal Division and no other warrant that this product conforms to the chemical description on the label and is satisfactory for the purposes referred to in the Directions for Use. To the extent permitted by law, neither GARRETT COLLIDS NOR ITS SUPPLEMENTAL DISTRIBUTORS MAKE ANY OTHER EXPRESS OR IMPLIED WARRANTY FOR ANY PARTICULAR PURPOSE OR USE OF ANY OTHER WARRANTY. THIS WARRANTY DOES NOT EXTEND TO, AND THE PURCHASER SHALL BE SOLELY RESPONSIBLE FOR, ANY AND ALL LOSS OR DAMAGE WHICH RESULTS FROM THE USE OF THIS PRODUCT OR ANY MACHINERY WHICH IS INCONSISTENT WITH THE LABEL, INSTRUCTIONS, GARRETT COLLOIDS, THE SUPPLEMENTAL DISTRIBUTORS, AND THE SELLER HEREBY DISCLAIM ALL LIABILITY (RECOVERY OF ANY KIND, INCLUDING BUT NOT LIMITED TO ANY AGENT OF THE SELLER) IN THE EVENT OF ANY CLAIMS WHICH ARE BASED ON THE USE OF THIS PRODUCT OR ANY MACHINERY WHICH IS INCONSISTENT WITH THE LABEL, INSTRUCTIONS, GARRETT COLLOIDS, THE SUPPLEMENTAL DISTRIBUTORS, AND THE SELLER HEREBY RECOGNIZE NO OTHER WARRANTY THAN THAT WHICH IS EXPLIAC TLY STATED IN THESE DIRECTIONS FOR USE.