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

Product Storage: Store in a cool, dry, well-ventilated location away from acids, chlorine and chlorine compounds, hydrocarbons (bleach), organic solvents, sulfur and sulfide compounds, phosphorus, combustible flammable materials, and direct sunlight. Keep containers tightly closed when not in use and open carefully to prevent spillage. Storage on wooden floors and pallets is not recommended. Keep from freezing.

Container Disposal: Do not reuse this container. Offer for recycling if available. Offer for reconditioning if appropriate. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into applicator's equipment or a mix tank and drain for ten seconds after the flow begins to stop. Fill the container 1/2 full with water and recap. Pour rinsate into application equipment or a mix tank or storage rinsate for later use or disposal. Drain for 10 seconds after the flow begins to stop. Repeat this procedure two more times.

Pesticide Disposal: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

PRECAUTIONARY STATEMENTS
Hazards to Humans & Domestic Animals: CAUTION: Harmful if swallowed, harmful if inhaled. Avoid breathing vapor or spray mist. Causes moderate eye irritation. Remove contaminated clothing and wash before reuse. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or going to the toilet.

FIRST AID
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.

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 eyes open and rinse slowly and gently with water for 15-20 minutes.
- Remove contact lens, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

If swallowed:
- 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.
- Have the product container or label with you when calling a poison control center or doctor or going for treatment.
- For emergency information on this product, call National Poison Control Information Center at 800.868.7679, 6:30 AM to 4:30 PM Pacific Time (PT) seven days a week. During other times, call the poison control center at 800-222-1222.

ENVIRONMENTAL HAZARDS
This product is toxic to fish and aquatic invertebrates, crustaceans, and shrimp. Do not discharge effluent containing 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. For guidance contact your State Water Board or Regional Office of the EPA.

ACTIVATION
The active biocidal component of Purogene® system is free chlorine dioxide. Unactivated Purogene® is the neutral to mildly alkaline pH range is bactericidal. The highest level microbial control, such as disinfectants and sanitizers, activation of Purogene® is required to generate free chlorine dioxide. The use of citric acid as an activator is specified in most Purogene® applicable materials. Alternatives to citric acid for activation include generally regarded as safe (GRAS) organic acids such as acetic acid, and inorganic acids such as phosphoric, hydrochloric, and sulfuric acids. Activation equivalent to that of citric acid may be achieved by adjusting the Purogene® solution to pH 2.3 to 2.5. For citric acid. The activated Purogene® and is then diluted to the required concentration in accordance with label instructions. For food processing applications only food grade activator acids may be used. Bio-Cide International, Inc., or your Purogene® distributor can guide you in proper activation techniques.

DIRECTIONS FOR USE: It is a violation of federal law to use this product in a manner inconsistent with its labeling.

TO CONTROL THE SPREAD OF LATE BLIGHT, SALT ROT, DRY ROT, SILVER SCURF, RING ROT, PINK ROT, BLACK SCURF AND OTHER TUBER DISEASE CAUSING ORGANISMS IN POTATO STORAGE SHEDS:

Activation of Purogene®: Prior to dilution, the product concentrate must be activated by addition of a food grade acid in order to generate free chlorine dioxide. See below for directions on activation.

FOR THE TREATMENT OF WATER USED TO SPRAY OR RINSE POTATOES PRIOR TO STORAGE:

1) Activation: For all applications, activate 5 gallons of Purogene® with 25 oz (1.6 lbs) of citric acid (99% fine granular), or 7.5 oz. of 75% phosphoric acid. Wait 30 minutes.

2) Dilution: Dilute activated concentrate to 400 ppm. 5 gallons of activated Purogene® = 250 gallons of water = 400 ppm solution.

3) Apply 400 ppm solution directly on tubers going into storage using any appropriate means such as spraying of misting. For small volume applications, refer to the Technical Data Sheet.

FOR THE TREATMENT OF HUMIDIFICATION WATER TO CONTROL TUBER DISEASE CAUSING ORGANISMS ON STORED POTATOES:

1) Activation: For humidification applications, activate 5 gallons of Purogene® by adding 7.5 oz (0.47 lbs) of citric acid (99% fine granular), or 2.5 fl. oz. of 75% phosphoric acid. Wait 30 minutes.

2) Dilution: Dilute activated concentrate to 200 ppm. 5 gallons of Purogene® to 500 gallons of water = 200 ppm solution.

3) For continual treatment of high risk storage, an initial treatment up to 200 ppm may be added to the humidification as either a mist into the air stream, or as a fog directly into the potatoes.

4) For the periodic treatment of storage with unknown risk, a treatment up to 200 ppm may be applied as either a mist into the air stream, or as a fog directly into the potatoes.

5) To reduce the amount of water added to the storage during fogging treatments, concentrations of up to 400 ppm of activated product may be applied. Owners/operators of potato storage facilities must ensure adequate protective equipment for all users.

PERSONAL PROTECTIVE EQUIPMENT
Personal protective equipment (PPE) that must be worn during mixer loader task associated with pre-storage applications of Purogene® includes: chemical-resistant glasses, goggles/lace shield, and NIOSH approved canister/cartridge respirator rated for chlorine or chlorine gas vapors or specified for chlorine dioxide.

Chemical resistant gloves must be worn for all other handler activities in which the worker is placed in direct contact with the wet treated potatoes (e.g., during inventory/fulfillment monitoring in the storage shed) or the furnace/evaporation water system/process water tank (during equipment cleaning/maintenance).

RESTRICTIONS
Do not allow unprotected workers in the area to be exposed above the permissible exposure limit (PEL) of 0.1 ppm for an 8 hour time weighted average (TWA), or 0.3 ppm for any 15 minute short term exposure limit (STEL). Avoid storing product under conditions in which it could evaporate to a crystalline salt. All potatoes treated must have a potato rinse applied before further processing. Avoid contact with eyes, mouth, and any open wounds. Do not allow chlorine dioxide to accumulate in confined spaces. Waste water containing residual chlorine dioxide and its breakdown products like chlorite, chlorate, or chloride ions will be transferred to public water systems but kept in an open pond or reservoir to go through aeration (which helps in the dissociation of chlorine dioxide in the confines of the treatment facility and only discarded after the levels of these pesticides are equal to or lower than the ones recommended by EPA's Office of Water.

EPA Reg. No. 9804-5  
Est. No. 9804-OK-1  
CAUTION  
KEEP OUT OF REACH OF CHILDREN

Corporate Address:  
2603 Venture Drive  
Norman, Oklahoma  
800.323.1388

Manufactured by:  
Bio-Cide International, Inc.