

MATERIAL SAFETY DATA SHEET



1. IDENTIFICATION

Product Name: StorOx®
Product Type: Bactericide / Fungicide
Manufacturer:
BioSafe Systems LLC
22 Meadow Street, East Hartford, CT 06108
Creation Date: 4/07
NOTE: Not valid two years after creation date.

EPA Registration No. 70299-2
EPA Establishment No. 60156-IL-001

2. HAZARDOUS COMPONENTS

Peroxyacetic Acid 79-21-0
Hydrogen Dioxide 7722-84-1

3. HEALTH HAZARDS DATA

Health effects to over exposure to CONCENTRATE

- Corrosive to mucous membranes, eyes and skin
- The seriousness of the lesions and the prognosis of intoxication depend directly on the concentration and duration of exposure.

Skin: May cause TEMPORARY skin discoloration and irritation

Eyes: May cause severe eye damage

Ingestion: HARMFUL OR FATAL: Causes chemical burns of mouth, throat and stomach.

- Corrosive to gastrointestinal tract
- Paleness and cyanosis of the face
- Excessive fluid in the mouth and nose
- Bloating of stomach and belching
- Nausea and vomiting
- Risk of chemical pneumonitis and pulmonary edema

Inhalation: Vapors or mist can cause irritation. People with asthma or other lung problems may be more affected.

4. FIRST AID

General recommendations:

- In case of product splashing in eyes, treat eyes first
- Submerge soil clothing in water
- Contact physician in all cases

Eyes: Immediately flush with plenty of cool running water. Remove contact lenses. Continue flushing for at least 15 minutes, holding eyelids apart to ensure rinsing of the entire eye. Administer analgesic eyewash (oxybuprocaine) Call a physician immediately.

Skin: Immediately flush skin with plenty of cool, running water for at least 15 minutes while removing contaminated clothing and shoes. Wash clothing before reuse.

Ingestion: Rinse mouth at once; then drink 1 or 2 large glasses of water or milk. DO NOT induce vomiting. NEVER give anything by mouth to an unconscious person. Take person to the hospital.

Inhalation: Immediately move a person to fresh air.

5. FIRE AND EXPLOSION DATA

Special fire hazards: Product (concentrate) can decompose and will release oxygen thereby adding to the fire hazard.

Fire fighting methods: Product is not flammable and can be quickly diluted with clean water. Oxidizing Agent may cause spontaneous ignition with oxidizing agents.

6. SPILL OR LEAK PROCEDURES

Cleanup: Rinse small amounts to drain when possible. Dike or dam large spills, pump to containers or soak in inert absorbent. Flush residue to sanitary sewer, rinse area thoroughly with clean water. Avoid materials that are incompatible with concentrate.

Waste Disposal: Consult state and local authorities for restrictions on disposal of chemical wastes. Unused product (concentrate) is classified as a (D002) by RCRA criteria.

7. HANDLING AND STORAGE

- Never return product back to the original container
- Keep concentrate away from reactive substances
- Prevent contact with organic materials
- Keep product in original container
- Store in cool, ventilated area
- Keep out of direct sunlight
- Never use metal containers or spigots
- Use vented container
- Warn personnel of dangers of concentrated product

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Respiratory: Avoid breathing mists or vapors of concentrate.
Eyes: Use chemical splash goggles when handling concentrate. For continued severe exposure, wear a face shield over the goggles.

Skins: Rubber gloves - protective or gauntlet type preferred when handling concentrate. Use aprons.
ACGIH TLV: 1 PPM 8 HOUR TWA 1.4 mg/m³ TWA
OSHA PEL: 1 PPM 8 HOURS TWA 1.4 mg/m³ TWA

Respiratory Protection:

- NIOSH approved full-face respirator for excessive conditions
- Hand gloves for handling concentrate = butyl rubber
- Eye protection - chemical proof goggles/face shield for splash risk
- Skin protection - coveralls when handling concentrate

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance: Clear, colorless liquid

Odor: Pungent

Freezing Point: -30°C (-22°F)

Boiling Point: Not applicable, product decomposes

Specific Gravity: 1.09

pH: 1.33

Solubility: Complete

Decomposition Temperature: Self-accelerating decomposition temperature >55°C

10. STABILITY AND REACTIVITY

Stability: Stable under normal conditions, with slow oxygen release.

Conditions to avoid: Heat/Direct Sunlight

Materials to avoid:

- Acids
- Bases
- Reducing Agents
- Organic Materials
- Metals
- Salts of Metals

11. TOXICOLOGICAL INFORMATION

Acute Toxicology:

- Oral route, LD50, rat 330 mg/kg
Test substance: 7% solution
- Dermal route, LD50 rabbit, 1410 mg/kg
Test substance: 10% solution
- Inhalation, LD50, four hours, rat 4080 mg/kg
Test substance: 5% solution

Irritation:

- Rabbit, corrosive (eyes) Test substance: 4% solution
- Rabbit, corrosive (skin) Test substance: 5% solution
- Rat, irritant (respiratory tract)

Chronic Toxicity:

- Dermal = >0.12% solution, irritating effect
- Inhalation = >5 mg/m³, irritant
- Route of entry = Inhalation/ingestion

12. ECOLOGICAL INFORMATION

Toxic to simple cell and aquatic organisms. Danger to the environment limited; due to product properties.

- No bioaccumulation
- Soil degradation = 99% in 20 minutes
- Considerable abiotic and biotic degradability

- Sediments = Non-significant adsorption
- Weak persistence of degradation products
- Degradation products = water & oxygen

Acute Ecotoxicity:

- Fish, Rainbow trout LC50, 48 hours > 40 mg/L
- Crustaceans, EC 50, 48 hours 126.8 mg/L, 1 mg/L
- Bacteria, Pseudomonas aeruginosa, EC 100, 5 minutes, 5 mg/L

13. DISPOSAL CONSIDERATIONS

- Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.
- Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.
- Triple rinse (or equivalent). Then offer for recycling or dispose in a sanitary landfill, or incineration, if allowed by state and local authorities by burning. Stay out of smoke.

14. TRANSPORT INFORMATION

DOT Shipping Name: Hydrogen Peroxide and peroxyacetic acid mixture, stabilized, not more than 5% Peroxyacetic acid.

UN Number: 3149

Hazard Class: 5.1

Primary Hazard Label: Oxidizer

Subsidiary Risk Label: Corrosive

Packing Group: II

Shipping Container: UN Certified vented polyethylene. 2.5, 5, 30, 55 and 275 gallon polyethylene drums

Regulatory Information

TSCA Inventory List: YES

CERCLA Hazardous Substance: (40 CFR 302)

Listed Substance: NO

Unlisted Substance: YES

Characteristic: Corrosive

Reportable Quantity: 100 pounds

NFPA Rating Health – 2 Flammability – 0 Reactivity – 3

Special – OXY

HMIS Rating Health – 2 Flammability – 0 Reactivity – 2

PPE - Required

Canadian WHMIS Classification

C – Oxidizing E – Corrosive F – Dangerously Reactive

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A PRODUCT OF:

BioSafe Systems_{LLC}

For Additional information on StorOx,
call us toll free: 1.888.273.3088

or visit our website:
www.biosafesystems.com

SPECIMEN LABEL AND MSDS

A treatment for the prevention and control of plant pathogenic diseases on crops after harvest.

A treatment for the prevention and control of plant pathogenic diseases on hard, non-porous surfaces, equipment, and structures used in processing post-harvest commodities.

FOR AGRICULTURAL USE ONLY

ACTIVE INGREDIENT:

Hydrogen Dioxide27%

OTHER INGREDIENTS73%

TOTAL100%

KEEP OUT OF REACH OF CHILDREN

DANGER - PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand this label, find someone to explain it to you in detail.)

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 for treatment advice.

If on skin or clothing

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 – 20 minutes.
- Call a poison control center or doctor for treatment advice.

If swallowed

- Call 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, then give artificial respiration, preferably mouth-to-mouth if possible.
- Call poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact **1-800-222-1222** for emergency medical treatment information.

NOTE TO PHYSICIAN

Probable mucosal damage may contraindicate the use of gastric lavage.

Sold by: BioSafe Systems LLC
22 Meadow Street
East Hartford, CT 06108

EPA Registration No. 70299-2
EPA Establishment No. 60156-IL-001

PRECAUTIONARY STATEMENTS: HAZARDS TO HUMAN AND DOMESTIC ANIMALS – DANGER:

Corrosive. Concentrate causes irreversible eye damage. Concentrate may be fatal if swallowed or absorbed through skin. Concentrate causes skin burns or temporary discoloration on exposed skin. Do not breathe vapor of concentrate. Do not get concentrate in eyes, on skin or on clothing. Wear protective eyewear such as goggles or face shield. Wash thoroughly with soap and water after handling. Remove and wash contaminated clothing before reuse.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

When handling concentrate wear protective eyewear (goggles)

or face shield) and rubber gloves. Applicators and handlers must wear coveralls over long-sleeved shirt, long pants, and chemical resistant footwear plus socks. Follow manufacturer's instructions for cleaning /maintaining PPE. If no such instructions exist for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should wash hands thoroughly with soap and water before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to birds and fish. Do not contaminate water when disposing of equipment washwaters or rinsate. Exposed treated seed may be hazardous to birds and other wildlife. Dispose of all excess treated seed and seed packaging by burial away from bodies of water.

This product is highly toxic to bees and other beneficial insects exposed to direct contact on blooming crops or weeds. Do not

apply this product or allow it to drift to blooming crops or weeds while bees are actively visiting the treatment area. Do not apply this product or allow it to drift to crops where beneficials are part of an Integrated Pest Management strategy.

PHYSICAL AND CHEMICAL HAZARDS

Corrosive. Strong oxidizing agent. Do not use in concentrated form. Mix only with water in accordance with label instructions. Never bring concentrate in contact with other pesticides, cleaners or oxidative agents.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and handlers

of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE), notification to workers, and Restricted-Entry Interval (REI). The requirements in this box only apply to the uses of this product that are covered by the Worker Protection Standard.

For enclosed environments:

There is a restricted entry of four (4) hour for this product when applied via fogging or spraying to growing plants, surfaces, equipment, structures, and non-porous surfaces in enclosed environments such as glasshouses and greenhouses.

There is a restricted entry of four (4) hours for pre-plant dip, seed treatment, soil drench, mop, sponge, dip, soak, rinse or other non-spraying or fogging application methods when used in enclosed environments such as glasshouses and greenhouses.

PPE requirement for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that's been treated, such as plants, soil or water, is safety goggles or visor, coveralls worn over long-sleeved shirt and pants, waterproof gloves and chemical resistant shoes plus socks.

For field applications:

There is a restricted entry of four (4) hours for this product when applied by spraying to growing plants, surface soil areas in the field.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are not within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Keep unprotected persons out of treated areas until sprays have dried.

STORAGE AND DISPOSAL

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

Pesticide Storage:

Store in original containers in a cool, well-vented area, away from direct sunlight. Do not allow product to become overheated in storage. This may cause increased degradation of the product, which will decrease product effectiveness. In case of spill, flood area with large quantities of water. Do not store in a manner where cross-contamination with other pesticides or fertilizers could occur.

Pesticide Disposal:

Wastes resulting from the use of this product may be disposed of

on site or at an approved waste disposal facility. Open dumping is prohibited. If wastes cannot be disposed of according to label directions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste Representative at the nearest EPA Regional Office for guidance.

Container Disposal:

Triple rinse (or equivalent). 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.

DIRECTIONS FOR USE:

- StorOx is most effective when used with water having a neutral pH and containing no, or minimal organic or inorganic materials. For best results and effectiveness, thoroughly rinse out tank with water before mixing concentrate. StorOx will readily mix with clean, neutral water and does not require agitation.
- StorOx works by surface contact with the plants and materials being treated. It is important to ensure that all surfaces are thoroughly wetted. StorOx does not produce any visible residue, distinct odor or deleterious effects to plants or to postharvest commodities when used in accordance with label directions. Do not use at higher than suggested dilution rates as leaf burn may result.

Do not apply this product through any irrigation system unless directed by the label; refer to Chemigation Directions for Use.

APPLICATION DIRECTIONS:

FOR CLEAN, NON-POROUS SURFACES:

Pots, flats, trays: Use a dilution of 1:100 or 1¼ fl. oz. of StorOx per gallon of clean water. Spray until runoff. The use of additional surfactant is acceptable.

Cutting tools: Use a dilution of 1:100 or 1¼ fl. oz. of StorOx per gallon of clean water. Soak tools to ensure complete coverage. The use of additional surfactant is acceptable.

Benches and work areas: Sweep and remove all plant debris. Use power sprayer to wash all surfaces to remove loose dirt. Use a dilution of 1:100 or 1¼ fl. oz. of StorOx per gallon of clean water. Use a dilution of 1:50 or 2½ fl. oz. of StorOx per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. The use of additional surfactant is acceptable.

FOR SURFACES, EQUIPMENT AND STRUCTURES:

Use StorOx to suppress/control bacteria and fungi on surfaces, equipment, and structures such as plastic, floors, walls, fan blades, watering systems, vats, tanks, coolers, storage rooms, elevators, storage areas, spray equipment, conveyors, irrigation systems, process equipment, process water systems, trucks, structures, and related equipment. Follow treatment of any

food contact surfaces, equipment, or structures with a potable water rinse.

- 1) Sweep and remove all plant debris. Use a power sprayer to wash all surfaces to remove loose dirt and /or organic material.
- 2) Use a dilution of 1:100 or 1¼ fl. oz. of StorOx per gallon of clean water. Use a dilution of 1:50 or 2½ fl. oz. of StorOx per gallon of clean water if surfaces that are to be treated have not been pre-cleaned with water to remove organic deposits. The use of additional surfactant is acceptable.
- 3) Apply solution with mop, sponge, power sprayer, or fogger to thoroughly wet all surfaces. Allow treated surfaces to stay wet with solution for 10 minutes.

Fog enclosed areas as an adjunct to manual surface application. Wear protective eyewear (goggles or face shield) when fogging. Prior to fogging, pre-clean surfaces with water to remove any organic deposits. Fog the desired areas using a dilution of 1:50 or 2½ fl. oz. per gallon of water of StorOx, using any type of fogging equipment including, but not limited to, cold foggers, thermal foggers, low pressure air assisted and high pressure fog systems. Solutions are corrosive to materials that are easily oxidized such as natural rubber, copper, galvanized and black iron pipe. Test solutions on surfaces prior to use.

- 4) Follow treatment of any food contact surface, equipment, or structures with a potable water rinse.

- 5) Scrub off heavy growths of algae and fungi following application. Use a solution of StorOx to wash away dead growth.
- 6) Reapply as often as needed for control.

SURFACE TREATMENT FOR THE CONTROL OF CITRUS CANKER:

Use StorOx to control and prevent the transfer of *Xanthomonas* bacterial species including Citrus Canker on field equipment and hard, non-porous surfaces in packinghouses.

Field Equipment: Apply StorOx to field equipment such as pickers, trailers, trucks (including truck body parts and tires), ladders, power tools, pruning shears, gloves, rubber boots, Tyvek suits or other equipment that can transfer *Xanthomonas* bacterial species including Citrus Canker.

- 1) Remove loose soil or organic matter with clean water and/or detergent rinse.
- 2) Use StorOx at a dilution of 1:600 to 1:800 or 21.3 fl. oz to 16.0 fl. oz. per 100 gallons of water. Apply as a coarse spray until runoff. Allow treated surfaces to stay wet with solution for 10 minutes.
- 3) Allow StorOx treated surfaces to air dry. Do not rinse.

Packinghouses: Apply StorOx to surfaces and equipment found in commercial packinghouses including dump tanks, drenches, containers, conveyors, storages, walls, floors, and process lines.

- 1) Remove loose soil or organic matter with clean water and/or detergent rinse.
- 2) Use StorOx at a dilution of 1:600 to 1:800 or 21.3 fl. oz. to 16.0 fl. oz. per 100 gallons of water. Apply as a coarse spray until runoff.
- 3) Allow StorOx treated surfaces to air dry. Do not rinse.

POST HARVEST TREATMENTS:

For post-harvest spray treatments on process and packing lines: Inject StorOx directly into spray system water on process and packing lines to prevent bacterial and fungal diseases on post-harvest fruits and vegetables. Inject StorOx at a 1:100 dilution rate to clean water. For best results, where dump tanks are used, make post harvest spray treatment as fruit is leaving dump tanks. Applicable for use on all types of post-harvest commodities.

For post-harvest spray treatment: Use StorOx to prevent bacterial and fungal diseases on post-harvest fruits and vegetables. Mix 1.25 fl. oz. StorOx per gallon of clean water. Spray fruit or vegetables to runoff using hydraulic, backpack, air-assisted or other similar sprayer.

(see application instructions on next page)

CHEMIGATION:

General Requirements:

- 1) Apply this product only through a drip system or sprinkler including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, hand move, flood

SPRAY TREATMENTS FOR NEWLY HARVESTED POTATOES BEFORE STORAGE

CROPS	DISEASE	APPLICATION RATE	DIRECTIONS
Potatoes	Bacteria Soft Rot Early Blight Fusarium Tuber Rot Late Blight Silver Scurf	1¼ - 2½ fl. oz. of StorOx per gallon of water.	Spray diluted solution on tuber to runoff to achieve full and even coverage. The use of additional surfactant is acceptable to aid in sticking. Use 1 to 2 gallons of water per ton of potatoes.

DIRECT INJECTION INTO HUMIDIFICATION WATER FOR POST-HARVEST POTATOES IN STORAGE

CROPS	DISEASE	APPLICATION RATE	DIRECTIONS
Potatoes	Bacteria Soft Rot Early Blight Fusarium Tuber Rot Late Blight Silver Scurf	1¼ fl. oz. of StorOx per gallon of water.	Inject concentrate into makeup water used in humidification of post-harvest potatoes in storage.

(basin), furrow, border or drip (trickle) irrigation systems. Do not apply this product through any other type of irrigation system.

- 2) Crop injury, lack of effectiveness, or illegal pesticide residues in the crop can result from non-uniform distribution of treated water.
- 3) If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts.
- 4) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
- 5) A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.
- 6) Posting of areas to be chemigated is required when 1) any part of a treated area is within 300 feet of sensitive areas such as residential

areas, labor camps, businesses, day care centers, hospitals, in-patient clinics, nursing homes or any public areas such as schools, parks, playgrounds, or other public facilities not including public roads, or 2) when the chemigated area is open to the public such as golf courses or retail greenhouses.

- 7) Posting must conform to the following requirements:
 - Treated areas shall be posted with signs at all usual points of entry and along likely routes of approach from the listed sensitive areas.
 - When there are no usual points of entry, signs must be posted in the corners of the treated areas and in any other location affording maximum visibility to sensitive areas.
 - The printed side of the sign should face away from the treated area towards the sensitive area. The signs shall be printed in English.
 - Signs must be posted prior to application and must remain posted until foliage has dried and soil surface water has disappeared.

- Signs may remain in place indefinitely as long as they are composed of materials to prevent deterioration and maintain legibility for the duration of the posting period.
- All words shall consist of letters at least 2.5 inches tall, and all letters and the symbol shall be a color which sharply contrasts with their immediate background.
- At the top of the sign shall be the words KEEP OUT, followed by an octagonal stop sign symbol at least 8 inches in diameter containing the word STOP.
- Below the symbol shall be the words PESTICIDES IN IRRIGATION WATER.

Specific Requirements

for Chemigation Systems

Connected to Public Water Systems:

- 1) Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

- 2) Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
- 3) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 4) The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 5) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump

(e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

Specific Requirements for Sprinkler Chemigation:

- 1) The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.
- 7) Do not apply when wind speed favors drift beyond the area intended for treatment.

Specific Requirements for Flood (Basin), Furrow and Border Chemigation:

- 1) Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from backflow if water flow stops.
- 2) The systems utilizing a pressurized water and pesticide injection system must meet the following requirements:
 - a. The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
 - b. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
 - c. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of

the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

- d. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- e. The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- f. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.

Specific Requirements for Drip (Trickle) Chemigation:

- 1) The system must contain a functional check valve, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow.
- 2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
- 3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected

to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

- 4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.
- 5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.
- 6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being filled with a system interlock.

Application Instructions:

- 1) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.
- 2) Determine the treatment rates as indicated in the directions for use and make proper dilutions.
- 3) Prepare a solution in the chemical tank by filling the tank with the required water and then adding product as required. The product will immediately go into suspension without any required agitation.

- 4) Do not apply StorOx in conjunction with any other pesticides or fertilizers; this has the potential to cause reduced performance of the product. Avoid application in this manner.

WARRANTY:

This material conforms to the description on the label and is reasonably fit for the purposes referred to in the directions for use. Timing, method of application, weather, watering practices, nature of soil, potting medium, disease problem, condition of crop, incompatibility with other chemicals, pre-existing conditions and other conditions influencing the use of this product are beyond the control of the seller. Buyer assumes all risks associated with the use, storage, or handling of this material not in strict accordance with directions given herewith. NO OTHER EXPRESS OR IMPLIED WARRANTY OF FITNESS OR MERCHANTABILITY IS MADE.