



# KX-6078

ACCEPTED

JAN 29 2001

EPA Reg. No. 1677-184  
EPA Est. 60156-JL-1

Under the Federal Insecticide, Fungicide, and  
Rodenticide Act as amended, for the  
pesticide, registered under

EPA Reg. No. 1677-184

Water Additive for Controlling the Growth of Microorganisms that cause decay and spoilage on Fresh Cut, Post Harvest, and Further Processed Fruits and Vegetables in transport, storage and processing

**ACTIVE INGREDIENTS:**

Peroxyacetic acid.....14.9%  
Hydrogen peroxide.....11.4%

**INERT INGREDIENTS:**.....73.7%

**TOTAL** 100.0%

## KEEP OUT OF REACH OF CHILDREN DANGER

**PRECAUTIONARY STATEMENTS - HAZARDS TO HUMAN AND DOMESTIC ANIMALS**

**CORROSIVE:** Causes severe eye damage and skin burns. Harmful or fatal if swallowed. Do not get in eyes, on skin, or on clothing. Wear chemical goggles, rubber gloves, and protective clothing if handling concentrate. Wash thoroughly with soap and water after handling. Remove any contaminated clothing and wash before re-use.

**STATEMENT OF PRACTICAL TREATMENT**

**IF ON SKIN:** Immediately wash with plenty of soap and water. Get medical attention.

**IF IN EYES:** Flush immediately with cold water. Remove contact lenses. Hold eyelids open and flush with water for 15 minutes. Get medical attention immediately.

**IF SWALLOWED:** DO NOT induce vomiting. Immediately drink large quantities of water. Avoid alcohol. Never give anything by mouth to an unconscious person. CALL A POISON CONTROL CENTER OR PHYSICIAN IMMEDIATELY.

**FOR EMERGENCY MEDICAL INFORMATION CALL TOLL FREE: 1-800-328-0026**

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

**PHYSICAL AND CHEMICAL HAZARDS:**

Strong oxidizing agent. Corrosive. Do not use in concentrated form. Mix only with water according to the label instructions. Never bring concentrate in contact with other sanitizers, cleaners, or organic substances.

**ENVIRONMENTAL HAZARDS:** This product is toxic to birds, fish, and aquatic invertebrates. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans, or other waters unless 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 this product to sewer systems without previously notifying the local sewage treatment plant authority. For guidance contact your State Water Board or Regional Office of the EPA.

**FOR COMMERCIAL OR INSTITUTIONAL USE ONLY  
STRONG OXIDIZING AGENT**

Manufactured by:



FOOD & BEVERAGE DIVISION  
Ecolab Inc.  
370 Wabasha Street  
St. Paul, MN 55102

**U.S. Patent No. 5,409,713 Other Patents Pending**

KX-6078 is intended for use in the control of microorganisms (or bacteria) which cause decay (and/or spoilage) and that may be present in the process water and on the surface of fresh-cut and post-harvest fruits and vegetables, as well as processed fruits and vegetables. Examples of process water are flumes, chill tanks and wash water systems. This product is not intended for control of any public health organisms.

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

**FOR TREATMENT OF PROCESS WATER STREAMS:**

**A. Batch systems with no makeup water added:**

1. Fill vessel containing fruits or vegetables with known amount of water.
2. Ensure that water is recirculating in vessel.
3. Add KX-6078 to no more than 533 ppm (wt/wt) total product (80 ppm residual peroxyacetic acid) in use solution. This can be accomplished by initially adding 53.3 grams (47.8 mls) KX-6078 per 100 liters of water, or 1.0 fluid ounces KX-6078 per 16.4 gallons of water.
4. Contact time of 45 seconds minimum is recommended.

**B. Continuous systems with constant addition of makeup water:**

**Initial dose:** (this brings the recirculating process water up to an initial properly dosed level of KX-6078).

1. Ensure that system is recirculating with known amount of water in vessels and piping.
2. Add initial dose of KX-6078 to no more 533 ppm (wt/wt) total product (80 ppm residual peroxyacetic acid) in use solution. This can be accomplished by adding 53.3 grams (47.8 mls) KX-6078 per 100 liters of water, or 1.0 fluid ounces KX-6078 per 16.4 gallons of water.
3. Contact time of 45 seconds minimum is recommended.

**Continuous dose:** (ensures steady state dosing of KX-6078 is maintained). Meter no more than 533 ppm (wt/wt) KX-6078 total product (80 ppm residual peroxyacetic acid) in proportion to the fresh makeup water added to the system. For example, makeup water flow rates of 16.4 gallons per minute would require a maximum of 1 fluid ounce (29.6 mls) per minute of KX-6078. Makeup water flow rates of 100 liters per minute would require a maximum of 53.3 grams (47.8 mls) per minute of KX-6078. Contact time of 45 seconds minimum is recommended.

**FOR TREATMENT OF FRUIT AND VEGETABLE SURFACES:**

Mix KX-6078 with water either batchwise or continuously to no more than 533 ppm (wt/wt) total product (80 ppm residual peroxyacetic acid) in use solution. This can be accomplished by initially adding 53.3 grams (47.8 mls) KX-6078 per 100 liters of water, or 1.0 fluid ounces KX-6078 per 16.4 gallons of water. The fruits and vegetables can be sprayed or submerged in the resulting solution for a minimum contact time of 45 seconds, followed by adequate draining.

**STORAGE AND DISPOSAL: DO NOT CONTAMINATE WATER OR FOOD BY STORAGE OR DISPOSAL**

**STORAGE:** Product should be kept cool and in vented container to avoid any explosion hazard.

**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 nearest EPA Regional Office for guidance.

**CONTAINER DISPOSAL:** (50 gallon drum) Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incinerator, or if allowed by state and local authorities, by burning. If burned, stay out of smoke. [300 gallon tote] Verify that the tote is empty. Do not rinse or clean. Seal tote and contact Ecolab for return.

**NET CONTENTS: 50 U.S. Gals. (189 liters)**

KX-6078 can be used on the following types of fresh, post harvest and further processed fruits and vegetables:

Vegetables

- Root and tuber vegetables: Carrot, potato, radish, rutabaga, sweet potato, yam, sugar beet
- Leaves of root and tuber vegetables: Turnip greens, and sugar beet
- Bulb vegetables: Onion (dry bulb and green), leek, garlic, shallot
- Leafy vegetables: Lettuce (head and leaf), celery, fennel, endive, escarole, parsley, radicchio, rhubarb, spinach
- Brassica leafy vegetables: Broccoli, Brussel sprouts, cabbage, cauliflower, mustard greens, mustard spinach
- Legumes [succulent or dried], bean (green, kidney, lima, mung, navy, pinto, snap, wax), pea (chickpea, lentil, dwarf, garden, English, field, edible pea pod), alfalfa, and soybean
- Fruiting vegetables: Pepper (bell, pimento, hot, sweet), tomato, tomatillo, eggplant
- Cucurbits: Cucumber, melon (cantaloupe, crenshaw melon, honeydew, honey ball melon, mango melon, muskmelon, pineapple melon, watermelon), summer squash, pumpkins, winter squash

Fruits

- Citrus fruits: Sweet and sour orange, lemon, lime, tangelo, tangerine, mandarin, citrus citron, kumquats, grapefruit
- Pome fruits: Apples and pears
- Stone fruits: Sour or sweet cherry, peach, nectarine, plum, prune
- Small fruits and berries: Blackberries, blueberries, red and black raspberries

Sprouts and seeds of: vegetables and fruits that are listed on this label including, root & tuber vegetables, bulb vegetables, leafy vegetables, Brassica leafy vegetables, legumes, fruiting vegetables, cucurbits, citrus fruits, pome fruits, stone fruits, small fruits and berries, mustard

Tree nuts: Almond, Brazil, filbert, cashew, pecan, walnut (black & English), macadamia, chestnut

Cereal grains: Corn, barley, oats, rice, wheat, triticale, wild rice, sweet corn

Herbs and Spices: Basil, chives, coriander, dill, lemongrass, marjoram, sage, savory, tarragon, thyme

Miscellaneous: Asparagus, avocado, artichoke, banana, cranberry, fig, grape, kiwifruit, mango, mushroom, okra, peanut, persimmon, pineapple, raisins, strawberry, water chestnut, watercress

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