ES-1000™

Penetrant

PRINCIPAL FUNCTIONING AGENTS:
- Dimethyl adipate ........................................ 72.0%
- Dimethyl sebacate ........................................ 20.0%
- Dimethyl glutarate ........................................ 8.0%
TOTAL ......................................................... 100.0%

KEEP OUT OF REACH OF CHILDREN

CAUTION

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: May cause respiratory tract, eye and skin irritation. Avoid contact with eyes, skin and clothing. Avoid breathing vapor or mist. Keep container closed. Use only with adequate ventilation. Wash thoroughly after handling.

Consult your Ecolab Representative for specific use instructions and recommended dispensing equipment. Please refer to the Material Safety Data Sheet before use.

FOR COMMERCIAL USE ONLY

| 1677-07001 |

PERSONAL PROTECTION EQUIPMENT

RATINGS:

0 - MINIMUM
1-SLIGHT
2-SIGNIFICANT
3-SEVERE
4-EXTREME

Contains: Dimethyl adipate, 627-93-0; Dimethyl sebacate, 106-79-6; and Dimethyl glutarate, 1119-40-0.

Ecolab Inc., Food & Beverage Division
370 Wabasha Street N.
St. Paul, Minnesota 55102-1390 U.S.A.

2006 Ecolab Inc. Made in U.S.A. 709730/5030/1106
All Rights Reserved
ENVIRO SAN™

Commercial Sterilant for Aseptic Manufacturing and Packaging Equipment for Food Processing

ACTIVE INGREDIENTS:
Hydrogen Peroxide .......................................................... 11.2%
Peroxyacetic Acid ........................................................... 15.2%

INERT INGREDIENTS: .......................................................... 73.5%

TOTAL: ........................................................................ 100.0%

KEEP OUT OF REACH OF CHILDREN
DANGER
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS AND DOMESTIC ANIMALS
DANGER: CORROSIVE. Causes irreversible eye damage and skin burns. May be fatal if inhaled or absorbed through the skin. Harmful if swallowed. Do not get in eyes, on skin or on clothing. Do not breathe vapor or spray mist. Wear protective eyewear (goggles, face shield, or safety glasses), protective clothing and rubber gloves. Wash thoroughly after handling with soap and water, and before eating, drinking or using tobacco. Remove contaminated clothing and wash clothing before reuse. Wear a mask or pesticide respirator jointly approved by Mine Safety and Health Administration and the National Institute for Occupational Safety and Health. PHYSICAL AND CHEMICAL HAZARDS: Strong oxidizing agent. Corrosive. Do not use in concentrated form. Mix only with water according to label instructions. Never bring concentrate in contact with other sanitizers, cleaners or organic substances.

Consult your Ecolab Representative for specific use instructions and recommended dispensing equipment. Please refer to the Material Safety Data Sheet before use.

FOR COMMERCIAL USE ONLY
STRONG OXIDIZING AGENT

Ecolab Inc., Food & Beverage Division
570 Wabasha Street N.
St. Paul, Minnesota 55102-1380 U.S.A.

© 2006 Ecolab Inc. Made in U.S.A. 708494/5301/1106
All Rights Reserved

U.S. Patent Nos: 6,344,942; 6,592,283; and 6,527,227

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 a poison control center or doctor 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.
FOR EMERGENCY MEDICAL INFORMATION IN USA OR CANADA, CALL: 1-600-328-0026.
FOR EMERGENCY MEDICAL INFORMATION WORLDWIDE, CALL: 1-651-222-9322 (IN THE USA).
Have the product container or label with you when calling a poison control center or doctor, or going for treatment.
NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.
ENVIRONMENTAL HAZARDS: 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.
DIRECTIONS FOR USE
It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

COMMERCIAL STERILIZATION
Enviro San can be used in food processing aseptic packaging systems as a commercial sterilant to treat clean, non-porous food packaging materials and equipment. This product is effective as a commercial sterilant in conjunction with ES-1000 when the solution is prepared in water of up to 500 ppm hardness.

COMMERCIAL STERILIZATION OF FOOD PACKAGING MATERIALS
Commercially sterile clean, non-porous food packaging materials with a concentration of 5.0 ounces of Enviro San concentrate per 1.0 gallon of water (6597 ppm peroxycetic acid by weight) and 0.2 ounces of ES-1000 concentrate per 1.0 gallon of water (1500 ppm by weight) at a temperature of 60 - 65°C. Sterilization solution must be maintained at a minimum of 4100 ppm peroxycetic acid and 1000 ppm ES-1000. For example, in one gallon of water add 5.0 ounces of Enviro San and 0.2 ounces of ES-1000. Use immersion, coarse spray or circulation techniques as appropriate to sterilize the food packaging material. Surfaces should be exposed to the solution for a period of not less than 19 seconds unless a longer time is specified by the governing food processing authority. After thorough draining, rinse surfaces with a disinfected water rinse free of pathogenic bacteria or sterile water. This product when used per label directions is effective against Bacillus cereus, Bacillus subtilis, and Clostridium sporogenes in water up to 500 ppm hardness.

This product may be used to sterilize polyethylene terephthalate (PET) packaging for aseptic packaging of low acid dairy food that has a scheduled process accepted by FDA. The aseptic food packaging operation must comply with all applicable FDA regulations, including, but not limited to, 21 CFR parts 108, 110, 113, and/or 114. Use in an aseptic food processing operation includes testing required for the process validation.

COMMERCIAL STERILIZATION OF MANUFACTURING, FILLING, AND PACKAGING EQUIPMENT FOR FOOD PROCESSING
Prior to use of this product, remove gross soil particles from equipment surfaces, thoroughly clean surfaces, and follow with a potable water rinse. Commercially sterilize clean manufacturing, filling, and packaging equipment with a concentration of 5.0 ounces of Enviro San concentrate per 1.0 gallon of water (6597 ppm peroxycetic acid by weight) and 0.2 ounces of ES-1000 concentrate per 1.0 gallon of water (1500 ppm by weight) at a temperature of 60 - 65°C. Sterilization solution must be maintained at a minimum of 4100 ppm peroxycetic acid and 1000 ppm ES-1000. For example, in one gallon of water add 3.4 ounces of Enviro San and 0.2 ounces of ES-1000. Use immersion, coarse spray or circulation techniques as appropriate to sterilize the equipment. Surfaces should be exposed to the solution for a period of not less than 19 seconds unless a longer time is specified by the governing food processing authority. After thorough draining, rinse surfaces with a disinfected water rinse free of pathogenic bacteria or sterile water. This product when used per label directions is effective against Bacillus cereus, Bacillus subtilis, and Clostridium sporogenes in water up to 500 ppm hardness.

This product may be used for Aseptic Packaging of Low Acid Foods that has a scheduled process by FDA. The aseptic food processing operation must comply with all applicable FDA regulations, including, but not limited to, 21 CFR parts 108, 110, 113, and/or 114. Use in an aseptic food processing operation includes testing required for the process validation.

This product is not for use as a sterilant on medical devices.

SANITIZATION
Enviro San acid sanitizer is recommended for use on pre-cleaned surfaces such as equipment, pipelines, tanks, vats, fillers, evaporators, pasteurizers and aseptic equipment in dairies, breweries, wineries, beverage and food processing plants. This product is effective as a sanitizer when solution is prepared in water of up to 500 ppm hardness.

SANITIZING FOOD CONTACT SURFACES
Prior to use of this product, remove gross soil particles from surfaces, thoroughly clean surfaces, and follow with a potable water rinse. Sanitize clean surfaces with a concentration of 0.10 - 0.18% w/v (1000 to 1800 ppm w/v or 1.8 ounces per 8 gallons of water) at room temperature. Use immersion, coarse spray or circulation techniques as appropriate to sanitize the surfaces. All surfaces should be exposed to the sanitizing solution for a period of not less than one minute unless otherwise specified by governing sanitary code. Allow surfaces to drain thoroughly and at air dry. Do not rinse. This product when used per label directions is effective against Staphylococcus aureus and Escherichia coli.

SANITIZING NON-FOOD CONTACT SURFACES
Prior to use of this product, remove gross soil particles from surfaces, thoroughly clean surfaces, and follow with a potable water rinse. Sanitize clean surfaces with a concentration of 0.2 - 1.5% w/v (2000 to 15,000 ppm w/v or 0.2 oz. to 15 oz. per 8 gallons of water) at a temperature of 25 to 45°C. Use immersion, coarse spray or circulation techniques as appropriate to sanitize the surfaces. All surfaces should be exposed to the sanitizing solution for a period of not less than five minutes unless otherwise specified by governing sanitary code. Allow surfaces to drain thoroughly before resuming operations. Drainage may be followed by a potable or sterile water rinse. The product when used per label directions is effective against Enterobacter aerogenes, Escherichia coli, Listeria monocytogenes, Pseudomonas aeruginosa, Salmonella typhimurium, Staphylococcus aureus, Pediococcus damnosus, and Lactobacillus maliformens.

ANTIMICROBIAL RINSE OF PRECLEANED OR NEW RETURNABLE OR NON-RETURNABLE CONTAINERS
To reduce the number of beverage spoilage organisms, Lactobacillus maliformens, Saccharomyces cerevisiae and Allococcobacillus acidotherresistus, apply Enviro San at a concentration of 2 to 8 ounces concentrate per 3 gallons of water (0.58% to 2.3% weight percent) at a temperature of 40 to 65°C for at least 7 seconds. After thorough draining, rinse surfaces with a disinfected water rinse free of pathogenic bacteria or sterile water.

NOTE: This product in its use solutions is compatible with stainless steel and aluminum surfaces. If product is intended to be used on any other surface, it is recommended that you apply product to a smaller test area to determine compatibility before proceeding with its use.

STORAGE AND DISPOSAL
DO NOT CONTAMINATE WATER, FOOD OR FEED BY STORAGE OR DISPOSAL.

PESTICIDE STORAGE: Product should be kept cool and in a ventilated 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

EPA Reg. No. 1677-185
EPA Est.: 1677-MN-1-1 P, 60155-IL-1 (SI), 1677-CA-2 (R), 1677-TX-1 (D), 1677-OH-1 (H), 1677-IL-2 (J), 1677-PR-1 (B), 1677-CA-1 (S), 1677-CA-1 (M), 1677-WV-1 (V).

Superscript refers to first letter of date code.