



Department of Agriculture  
STATE OF HAWAII



LICENSED 9203.381

PERIOD 2013-2015 LIC. NO.

A-456® II

Disinfectant Cleaner

ECOLAB®

**One-Step Disinfectant • Cleaner • Fungicide • Mildewstat •  
Virucide\* • Deodorizer**

**For Hospitals, Institutional and Industrial Use**

Effective in hard water up to 200 ppm hardness (calculated as CaCO<sub>3</sub>) in the presence of 5% serum contamination.

**ACTIVE INGREDIENTS:**

Octyl decyl dimethyl ammonium chloride .....	6.510%
Diocetyl dimethyl ammonium chloride .....	2.604%
Didecyl dimethyl ammonium chloride.....	3.906%
Alkyl (C <sub>14</sub> , 50%; C <sub>12</sub> , 40%; C <sub>16</sub> , 10%) dimethyl benzyl ammonium chloride .....	8.680%

**INERT INGREDIENTS:**..... 78.300%

**TOTAL** ..... 100.000%

**KEEP OUT OF REACH OF CHILDREN  
DANGER | PELIGRO**

*See side panel for additional precautionary statements and first aid instructions.*

*See reference sheet for additional product information.*

**Net Contents: 1.3 L (44 US fl oz)**

EPA Reg. No. 6836-78-1677  
EPA Est. 303-IN-1 (L); 1677-IL-2 (J),  
1677-TX-1 (D), 1677-GA-1 (M),  
1677-MN-1 (P), 1677-CA-1 (S),  
1677-CA-2 (R), 1677-WV-1 (V),  
74038-NY-1 (C).

Superscript refers to first letter of date code.

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## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER:** Corrosive. Causes irreversible eye damage and skin burns.

Do not get in eyes, on skin, or on clothing. Wear protective eyewear (goggles, face shield or safety glasses), protective clothing and protective (rubber or chemical resistant) gloves. Harmful if swallowed and/or if absorbed through the skin. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove contaminated clothing and wash clothing before reuse.

### 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 first 5 minutes, then continue rinsing eye.

**IF ON SKIN OR CLOTHING:** Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes.

**IF SWALLOWED:** Call a 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.

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

For emergency medical information, call toll-free 1-800-352-5326.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling poison control center or doctor or going for treatment.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Please refer to reference sheet for Directions for use.

### STORAGE AND DISPOSAL

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

**Pesticide Storage:** Open dumping is prohibited. Store in original container in areas inaccessible to children.

**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:** Nonrefillable container. Do not reuse or refill this container. Clean container promptly after emptying. Triple rinse as follows: Fill container 1/4 full with water and reclose the container. Agitate vigorously, and dispose of rinsate consistent with pesticide disposal instruction. Repeat two more times. Then offer for recycling if available or puncture and dispose in sanitary landfill or by other procedures approved by state and local authorities. Follow pesticide disposal instructions for rinsate. If not triple rinsed, these containers are acute hazardous wastes and must be disposed in accordance with local, state, and federal regulations.



**A-456 II**  
**Disinfectant Cleaner**

# A-456<sup>®</sup> II Disinfectant Cleaner

**KEEP OUT OF REACH OF CHILDREN  
DANGER | PELIGRO**

See bottle label for Precautionary Statements, First Aid and Storage and Disposal information.  
PELIGRO: Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

### DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

#### Dilution:

Disinfection (1:256).....1/2 oz. per gallon of water  
[848 ppm active]

Disinfection (1:64).....2 oz. per gallon of water  
[3390 ppm active]

#### Preparation of Use-Solution:

Add 1/2 oz. per gallon of water.

Use 2 oz per gallon of water to kill Adenovirus Type 5 and Type 7.

#### DISINFECTION / VIRUCIDAL\* / FUNGICIDAL / MOLD AND MILDEW CONTROL DIRECTIONS:

Apply use-solution to hard, nonporous surfaces, thoroughly wetting surfaces with a cloth, mop, sponge, sprayer or by immersion. Treated surfaces must remain wet for 10 minutes. For Influenza virus Type A and Human Coronavirus, treated surfaces must remain wet for 1 minute. Wipe dry with a cloth, sponge or mop or allow to air dry. For heavily soiled areas, a preliminary cleaning is required. For sprayer applications, use a coarse spray device. Spray 6 - 8 inches from the surface, rub with a brush, sponge or cloth. Do not breathe spray. Rinse all surfaces that come in contact with food such as countertops, exteriors of appliances, tables and stovetops with potable water before reuse. Do not use on utensils, glassware and dishes.

**For fungicidal activity, A-456 II Disinfectant Cleaner** is an effective fungicide against Trichophyton mentagrophytes (the athlete's foot fungus) in areas such as locker rooms, dressing rooms, shower and bath areas and exercise facilities.

A-456 II Disinfectant Cleaner is a one-step fungicide at 1/2 oz. per gallon of water in 200 ppm hard water and 5% serum.

**For mold and mildew,** At 1/2 oz. per gallon of water, A-456 II Disinfectant Cleaner will effectively inhibit the growth of mold and mildew and the odors caused by them when applied to hard, nonporous surfaces. Follow Disinfection instructions. Repeat treatment every seven days, or more often if new growth appears.

**BACTERICIDAL STABILITY OF USE-DILUTION:** Tests confirm that the use solution of this product, when stored in a sealed container such as a spray bottle, remains effective for up to one year. If product becomes visibly dirty or contaminated, the use-dilution must be discarded and fresh product prepared. Always use clean, properly labeled containers when diluting this product. Bactericidal stability of the use-dilution does not apply to open containers such as buckets or pails. This product is not for use on medical device surfaces.

**TO CLEAN AND DEODORIZE:** Mix 1/2 oz. of A-456 II Disinfectant Cleaner per gallon of water to clean and deodorize surfaces. Apply using a cloth, mop, sponge or sprayer. Wipe or allow to air dry.

**\*KILLS HIV AND HBV AND HCV ON PRE-CLEANED ENVIRONMENTAL SURFACES/ OBJECTS PREVIOUSLY SOILED WITH BLOOD / BODY FLUIDS** in health care settings or other settings in which there is an expected likelihood of soiling of inanimate surfaces / objects with blood or body fluids, and in which the surfaces / objects likely to be soiled with blood or body fluids can be associated with the potential for transmission of Human Immunodeficiency Virus Type 1 (HIV-1) (associated with AIDS) or Hepatitis B Virus (HBV) or Hepatitis C Virus (HCV).

**SPECIAL INSTRUCTIONS FOR CLEANING AND DECONTAMINATION AGAINST HIV-1 OR HBV OR HCV ON SURFACES / OBJECTS SOILED WITH BLOOD / BODY FLUIDS.**

**Personal protection:** Clean-up must always be done wearing protective gloves, gowns, masks and eye protection.

**Cleaning procedure:** Blood and other body fluids containing HIV or HBV or HCV must be thoroughly cleaned from surfaces and objects before application of A-456-II Disinfectant Cleaner.

**Contact time:** Leave surface wet for 1 minute (60 seconds) for HIV-1 and 10 minutes for HBV and HCV with 1/2 oz. per gallon use-solution. Use 2 oz per gallon of water to kill Adenovirus Type 5 and Type 7. Use a 10-minute contact time for disinfection against all other viruses, bacteria and fungi claimed.

**Disposal of infectious material:** Blood, body fluids, cleaning materials and clothing must be autoclaved and disposed of according to local regulations for infectious waste disposal.

#### VETERINARY PRACTICE / ANIMAL CARE / ANIMAL LABORATORY / ZOOS / PET SHOP / KENNELS DISINFECTION / VIRUCIDAL\* DIRECTIONS:

For cleaning and disinfecting hard nonporous surfaces: equipment used for feeding or watering animals, utensils, instruments, cages, kennels, stables, catteries, pens, stalls and etc. Remove all animals and feeds from premises, animal transportation vehicles, crates, pens, stalls and etc. Remove all litter, droppings and manure from floors, walls and surfaces of facilities occupied or traversed by animals. Empty all feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate surfaces with a use-solution of 1/2 oz. of A-456-II Disinfectant Cleaner per gallon of water for a period of 10 minutes. Use 2 oz per gallon of water to kill Adenovirus Type 5 and type 7. Wipe or allow to air dry. Immerse all halters, ropes, and other types of equipment used in handling and restraining animals as well as forks, shovels, and scrapers used to remove litter and manure. Thoroughly scrub all treated surfaces, then rinse all surfaces that come in contact with food, including equipment used for feeding or watering, with potable water before reuse. Ventilate buildings, animal enclosures, vehicles and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried.

EPA Reg. No. 6836-78-1677



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**FARM PREMISE USE:** Remove all animals and feed from premises, vehicles and enclosures. Remove all litter and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Saturate all surfaces with a use-solution of 1/2 oz. of A-456-II Disinfectant Cleaner per gallon of water for a period of 10 minutes. Use 2 oz per gallon of water to kill Adenovirus Type 5 and Type 7. Immerse all halters, ropes and other types of equipment used in handling and restraining animals as well as forks, shovels and scrapers used for removing litter and manure. Ventilate buildings, cars, boats and other closed spaces. Do not house livestock or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

**POULTRY AND SWINE PREMISE DISINFECTION/VIRUCIDAL DIRECTIONS:** Remove all animals and feeds from premises, vehicles and enclosures such as coops and crates. Remove all litter, droppings and manure from floors, walls and surfaces of barns, pens, stalls, chutes and other facilities and fixtures occupied or traversed by animals. Empty all troughs, racks and other feeding and watering appliances. Thoroughly clean all surfaces with soap or detergent and rinse with water. Use 1/2 oz. of A-456-II Disinfectant Cleaner per gallon of water. Use 2 oz per gallon of water to kill Adenovirus Type 5 and other type 7. Saturate surfaces with the disinfecting solution for 10 minutes. Immerse all halters, ropes and other types of equipment used in handling and restraining animals, as well as forks, shovels, and scrapers used for removing litter and manure. Ventilate buildings, coops and other closed spaces. Do not house animals or employ equipment until treatment has been absorbed, set or dried. Thoroughly scrub all treated feed racks, mangers, troughs, automatic feeders, fountains and waterers with soap or detergent, and rinse with potable water before reuse.

**Vehicles:** Treat all vehicles including mats, crates, cabs and wheels with water and A-456-II Disinfectant Cleaner. Use 1/2 oz of A-456-II Disinfectant Cleaner per gallon of water to treat all vehicles. Use 2 oz per gallon of water to kill Adenovirus Type 5 and Type 7. Leave all treated surfaces wet for 10 minutes or more. Wipe dry with a clean cloth or sponge and allow to air dry.

A-456-II Disinfectant Cleaner is a concentrated one-step Hospital use disinfectant cleaner that is effective against a broad spectrum of bacteria, is virucidal\* including HIV-1, the AIDS Virus, and Hepatitis B Virus and Hepatitis C Virus, fungicidal and inhibits the growth of mold and mildew, and their odors, when used as directed.

A-456-II Disinfectant Cleaner is a Hospital Use disinfectant Bactericidal according to the current AOAC Use-Dilution Test Method and Virucidal\* according to the virucidal qualification modified in the presence of 200 ppm hard water plus 5% organic serum against:

#### Bacteria:

*Pseudomonas aeruginosa* [Pseudomonas]

*Staphylococcus aureus* [Staph]

*Salmonella enterica* [Salmonella]

*Acinetobacter baumannii*

*Brevibacterium ammoniagenes* [Brevibacterium]

*Campylobacter jejuni*

*Enterobacter aerogenes*

*Enterococcus faecalis* [Enterococcus]

*Enterococcus faecalis*- Vancocmycin Resistant [VRE]

*Escherichia coli* [E. coli]

ESBL *Escherichia coli* - [Extended spectrum beta-lactamase producing E. coli]

*Klebsiella pneumoniae* [Klebsiella]

*Legionella pneumophila*

*Listeria monocytogenes* [Listeria]

*Pseudomonas cepacia* [Pseudomonas]

*Salmonella schottmuelleri* [Salmonella]

*Salmonella typhi* [Salmonella]

*Serratia marcescens* [Serratia]

*Shigella dysenteriae* [Shigella]

*Staphylococcus aureus* - Community Associated Methicillin-Resistant [CA-MRSA] [NRS123] [USA400]

*Staphylococcus aureus* - Community Associated Methicillin-Resistant [CA-MRSA] [NRS384] [USA300]

*Staphylococcus aureus* - Methicillin-Resistant [MRSA]

*Staphylococcus aureus* - Multi-Drug Resistant [resistant to tetracycline [Tc], penicillin [Pc], streptomycin [Sm] and erythromycin [Em] and susceptible to chloramphenicol [Cm] in vitro]

*Staphylococcus aureus*-Vancocmycin Intermediate Resistant - [VISA]

*Streptococcus pyogenes* [Strep] [a cause of scarlet fever]

*Vibrio cholerae*

#### Viruses:

\*Adenovirus Type 5

\*Adenovirus Type 7

\*Hepatitis B Virus (HBV)

\*Hepatitis C Virus (HCV)

\*Herpes Simplex Virus Types 1 & 2

\*HIV-1 (AIDS Virus)

\*Human Coronavirus

\*Influenza Virus Type A/Brazil

\*Influenza Virus Type A/Hong Kong

\*Norwalk Virus (Feline Calicivirus)

\*Respiratory Syncytial Virus (RSV)

\*Rotavirus

\*SARS Associated Coronavirus (SARS)

\*Vaccinia Virus (Pox Virus)

#### Animal Viruses:

Avian Influenza Virus (H3N2)

Avian Influenza Virus (H5N1)

Avian Infectious Bronchitis Virus

Canine Distemper Virus

Feline Calicivirus

Newcastle's Disease Virus

Pseudorabies Virus

#### Fungi:

*Aspergillus niger*

*Trichophyton mentagrophytes*

Kills Pandemic 2009 H1N1 influenza A virus.

For product information, call 1 800 35 CLEAN (352 5326).