

SPRUCE UP™

Pine Oil Quaternary Disinfectant

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Before use, consult the product label for directions on preparation of use solutions, product application and cleaning procedures. The label will also contain detailed efficacy information, i.e., a list of bacteria, fungi and/or viruses against which this product is effective, and the dilution level and contact time required to achieve effective cleaning, sanitizing and/or disinfection. Also consult the label before use for precautionary statements, first aid, environmental hazards, handling, storage and disposal information.

Directions for Use

PREPARATION OF USE SOLUTION: Before using this product, food products and packaging materials must be removed from the room or carefully protected. Add 2.5 ounces of this product per gallon of water (or equivalent use dilution) to disinfect hard non-porous surfaces. Apply to walls, floors and other hard surfaces such as tables, chairs, countertops and sinks with a cloth, mop or mechanical spray device so as to thoroughly wet surfaces. For sprayer applications, use a coarse pump or trigger sprayer. Spray 6-8 inches from surface and rub with brush, sponge or cloth. Do not breathe spray. Treated surfaces must remain wet for 10 minutes. Let air dry. Prepare a fresh solution at least daily or when use solution becomes visibly dirty.

Note: With spray applications cover or remove all food products. For heavily soiled areas, a preliminary cleaning is required.
DISINFECTION PERFORMANCE IN INSTITUTIONS (Hospitals, Dental Offices, Nursing Homes, and Other Health Care Institutions): At 5 ounces per gallon use level (or equivalent use dilution) with a 10-minute contact time, this product is effective against: *Enterobacter aerogenes*, *Enterococcus faecalis*, *Escherichia coli*, *Pseudomonas aeruginosa*, *Salmonella enterica*, *Salmonella typhi*, *Serratia marcescens*, *Shigella dysenteriae*, *Streptococcus pyogenes*, *Staphylococcus aureus*.

DISINFECTION PERFORMANCE IN NON-MEDICAL FACILITIES (Schools, Restaurants, Food Services, Beverage and Food Processing Plants and Other Non-Medical Facilities): At 2.5 ounces per gallon use level (or equivalent use dilution) with a 10-minute contact time, the activity of this product has been evaluated by the AOAC use dilution test and found to be effective against a broad spectrum of gram negative and gram positive organisms as represented by: *Enterobacter aerogenes*, *Enterococcus faecalis*, *Escherichia coli*, *Salmonella enterica*, *Salmonella typhi*, *Serratia marcescens*, *Shigella dysenteriae*, *Streptococcus pyogenes*, *Staphylococcus aureus*. At 5 ounces per gallon use level (or equivalent use dilution) with a 10-minute contact time, this product has been evaluated by the AOAC use dilution test and found to be effective in the presence of both 5% blood serum and 400 ppm hard water against: *Escherichia coli*, *Salmonella enterica*, *Staphylococcus aureus*.

VIRUCIDAL* PERFORMANCE: At 2.5 ounces per gallon use level (or equivalent use dilution), this product was evaluated with a 10-minute contact time and found to be effective in the presence of 5% blood serum against the following viruses on hard, non-porous surfaces: Avian Influenza A H3N2 virus, HIV-1.

FUNGICIDAL CONTROL: At 5 ounces per gallon use level, fungicidal activity has been demonstrated in the presence of 5% blood serum and with a 10-minute contact time, when used on surfaces such as locker rooms, dressing rooms, shower and bath areas, exercise facilities against: *Trichophyton mentagrophytes*.

MOLD AND MILDEW CONTROL DIRECTIONS: At 2.5 ounces per gallon (or equivalent use dilution) of water and a 10-minute contact time, this product is effective against the following organism: *Aspergillus niger*.

TO DISINFECT FOOD-PROCESSING PREMISES: Before using this product, food products and packaging materials must be removed from area or carefully protected. For floors, walls and storage areas, add 2.5 ounces of this product to 1 gallon of water (or equivalent use dilution). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Allow surfaces to remain wet for 10 minutes. Then remove excess liquid. After use, all surfaces in the area must be thoroughly rinsed with potable water.

TO DISINFECT FOOD SERVICE ESTABLISHMENT FOOD CONTACT SURFACES: For countertops, exterior surfaces of appliances, and tables. Before using this product, food products and packaging materials must be removed from area or carefully protected. Add 2.5 ounces of this product to 1 gallon of water (or equivalent use dilution). For heavily soiled areas, a pre-cleaning step is required. Apply solution with a mop, cloth, sponge or hand pump trigger sprayer so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Allow surfaces to remain wet for 10 minutes. Then remove excess liquid and rinse the surface with potable water. This product is not for use on dishes, glassware or eating utensils.

TO DISINFECT TUBS, SHOWER STALLS, SINKS AND FAUCETS: Swab area and remove gross filth and heavy soil. Apply 2.5 ounces of this product per gallon of water (or equivalent use dilution) onto surface to be cleaned or apply with cloth or sponge to wet all surfaces thoroughly and allow surface to remain wet for at least 10 minutes. Wipe around with damp cloth or sponge. Do not allow solution to dry on surface. Rinse thoroughly with water.

CLEANING/DEODORIZING DIRECTIONS: Add 0.25 - 1 ounce per gallon of water to clean and deodorize windows, mirrors and non-food contact glass surfaces. Apply solution with a mop, cloth, sponge, or mechanical sprayer so as to wet all surfaces thoroughly. For sprayer applications, use a coarse spray device. Spray 6-8 inches from surface. Allow to air dry or wipe up excess liquid. Rub with sponge or cloth. Do not breathe spray.

Safety Reminder

Consult product label and Safety Data Sheet (SDS) before use. SDS's may be downloaded from www.crown-chem.com.



Technical Specifications

Appearance	Brown Liquid
Odor	Pine
pH (1% solution, 22°C)	<11.5.0
Foaming	Moderate
Flash Point	<200°F
Density (lbs/gal, 22°C)	8.34 ±0.1
Stability Range	50-100°F
Free Alkalinity (as Na ₂ O)	None
Solubility (in H ₂ O, 22°C)	100%
Phosphate Content (as P)	None

Product Number

33341
33305
33355

Packaging

4x1 gal. case
5 gal. pail
55 gal. drum