
Protea™
Engineered
For Chemical
Resistance
kwalu®

Protea™, Kwalu's proprietary material, is engineered to withstand the realities of healthcare and senior living environments. It is unaffected by water-based and water-soluble cleaning systems and resists exposure to many common substances, including organic solvents, oils, acids, salts, and everyday contaminants. Protea maintains its performance and appearance even when exposed to rigorous cleaning protocols and frequent use.

The following chemicals and chemical products have no effect on Protea, Protea Fusion, and Protea Plus when used according to the supplier's instructions.

3M Neutral Quat Disinfectant Cleaner Concentrate 23 (EPA 47371-129-10350)
Acetamide
Acetate Solv. 2
Acetyl Chloride
Acetylene2
Acid Fluoborate Bath R.T.
Acrylonitrile
Activate 5.25% Institutional Bleach
Alkaline Cyanide Bath R.T.
Alohois Amyl
Alum Potassium Sulfate (Alum), 10%
Alum Potassium Sulfate (Alum),100%
Aluminum Chloride
Aluminum Fluoride
Aluminum Hydroxide6
Aluminum Sulfate
Ammonia 10%
Ammonia, Anhydrous
Ammonia, Bifluoride
Ammonia, Carbonate
Ammonia, Casenite
Ammonia, Chloride
Ammonia, Hydroxide
Ammonia, Liquids
Ammonia, Nitrate
Ammonia, Oxalate
Ammonia, Persulfate
Ammonia, Phrosphate, Dibasic
Ammonia, Phrosphate, Monobasic
Ammonia, Phrosphate, Tribasic
Ammonia, Sulfate
Ammonia, Thiosulfate
Amyl Alcohol
Anise
Anti-Freeze
Antimony Trichloride
Arochlor 1248
Arsenic Acid
Arsenic Plating 110°F
Asphalt
Avert Sporicidal Disinfectant Cleaner (EPA 70627-72)
Barium Carbonate
Barium Chloride
Barium Cyanide
Barium Hydroxide
Barium Nitrate
Barium Sulfate
Barium Sulfide
Barrel Chrome Bath 95°F
Bay
Beef Sugar Liquids
Beer2
Benzoic Acid
Bleach-Rite Disinfecting Spray with Bleach (EPA 70590-2)
Blood
Bone
Borax (Sodium Borate)
Boric Acid
Brewery Slop
Bromine2 (wet)
Buster
Butadiene
Butane 2 1
Butanol
Butter
Buttermilk
Butyl
Butylene
Butyric Acid1
Calcium Bisulfate
Calcium Carbonate
Calcium Chlorate
Calcium Chloride
Calcium Hydroxide
Calcium Sulfate
Calgon
Cane Juice2
Carbolic Acid (See Phenol)
Carbon Dioxide (wet)
Carbon Monoxide
Carbonic Acid
Catsup
Cavicide I (EPA 46781-12)
CaviWipes Bleach (EPA 46781-14)
Chloracetic Acid2
Chlorinated Glue
Chlorine (dry)
Chlorine Water
Chocolate Syrup
Chromic Acid 50%
Cider
Cinnamon
Citric
Citric Acid
Citric Oils
Clorox Disinfecting Wipes - Crisp Lemon (EPA 5813-79)
Clorox Healthcare Bleach Germicidal Cleaner (EPA 67619-12)
Clorox Healthcare Fuzion Cleaner Disinfectant (EPA 67619-30)
Clorox Healthcare Spore Defense Cleaner Disinfectant (EPA 67619-40)
Clorox Regular Bleach (EPA 5813-100)
Clove
Coconut
Cod Liver
Coffee
Comet Disinfecting Cleaner with Bleach (EPA 3573-77)
Copper Chloride
Copper Cyanide
Copper Floborate
Copper Nitrate
Copper Sulfate
Copper-Zinc Bronze Bath 100°F
Corn
Cotton Seed
CPPC Tsunami
Cream
Cresylic Acid
CSP-3002-3
Cyanic Acid
Cyclohexane
Cycolic Acid
Defender Disinfectant and Cleaner 13.1g tablet (EPA 71847-7-9281)
Detergents
DIC-1 Spray Disinfectant (EPA 1839-220-83908)
Diesel Fuel
Diethylene Gycol
Diphenyl Oxide

Chemicals That Have No Effect on Protea™ (Continued)

Dispatch Hospital Cleaner Disinfectant Towels with Bleach (EPA 56392-8)
Dyes
Epsom Salts (Magnesium Sulfate)
Ethane
Ethanolamine
Ethyl
Ethyl Acetate2
Ethyl Sulfate
Ethylene Glycol4
Faeces
Fatty Acids
Ferric Chloride
Ferric Nitrate
Ferric Sulfate
Ferrous Chloride
Ferrous Sulfate
FF-ATH
Fluoboric Acid
Fluoride Bath
Fluosilicate Bath
Fluosilicic Acid
Formaldehyde
Formaldehyde 40%
Freon 11 1
Freon 12 (wet)2
Freon T.F.4
Fruit Juice
Fuel Oils
Furan Resin
Gallic Acid
Gelatin
Geronimo 160A
Ginger
Glucose
Glue P.V.A.1
Glycerine
Gold Monocyanide
Grape Juice
Grease 4
Haste-SSD-Component A
Haste-SSD-Component B
Heptane
Hexyl
High Speed Brass Bath 110°F
Honey
Hydraulic Oils (petroleum)1
Hydrazine
Hydrobromic Acid (Dry gas)
Hydrobromic Acid 4
Hydrocyanic Acid
Hydrocyanic Acid (Gas 10%)
Hydrogen Gas
Hydrogen Peroxide
Hydrogen Peroxide 10%
Hydrogen Peroxide 30%
Hydrogen Sulfide (dry)
Hydrogen Sulfide, Aqueous Solution
Hydroxyacetic Acid (70%)
Indium Sulfamate Plating R.T.
Ink
Iodoform
Isobutyl
Isopropyl
Isopropyl Acetate
Isopropyl Ethre 2
Isotane 2
Jet Fuel (JP#, JP4, JP5)
Kerosene2
Kimtech Germicidal Wipe
Kimtech Surface Sanitizer Wipe (EPA 9402-9)
Lactic Acid
Lard
Latex
Lead Acetate
Lead Fluoborate Plating
Lead Sulfamate Lemon
Ligroin3
Lime
Linseed
Lubricants
Lysol All-Purpose Cleaner (EPA 777-66)
Lysol Bleach Multi-Purpose Cleaner (EPA 777-83)
Magnesium Carbonate
Magnesium Chloride
Magnesium Hydroxide
Magnesium Nitrate
Magnesium Oxide
Magnesium Sulfate
Maleic Acid
Maleic Anhydride
Malic Acid
Mash
Massasoit A
Mayonnaise
Mehtyl Bromide
Melamine
Mercuric Chloride (Dilute Solution)
Mercuric Cyanide
Mercury Methanol (See Alcohol Methyl)
Metacomet 160B
Methyl Acetate
Methyl Acetone
Methyl Acrylate
Methyl Cellosive
Methyl Dichloride
Methyl Isobutyl Ketone 2
Methyl Methacrylate
Methyl6
Methylamine
Methylene Chloride
Methyul Isopropyl Ketone
Micro-Kill Bleach Germicidal Bleach Solution (EPA 37549-2)
Micro-Kill Bleach Germicidal Bleach Wipes (EPA 37549-1)
Milk
Mineral
Molasses
Mustard
Naptha
Nickel Chloride
Nickel Sulfate
Nitric Acid (10% Solution)
Nitric Acid (20% Solution)
Nitric Acid (50% Solution)
Nitric Acid (Concentrated Solution)
Octyl
Oleic Acid
Olive
Orange
Osceola 160C
Oxalic Acid (cold)
Oxivir 1 Wipes (EPA 70627-77)
Oxivir TB (EPA 70627-56)
Oxivir TB Wipes (EPA 70627-60)
Palm
Paraffin
PDI Prime Sani-Cloth Germicidal Disposable Wipe (EPA 9480-12)
PDI Sani-Cloth Bleach Germicidal Disposable Wipe (EPA 9480-8)
PDI Sani-HyPerCide Germicidal Spray (EPA 9480-14)
PDI Super Sani-Cloth Germicidal Disposable Wipe (EPA 9480-4)
Peanut3
Pentane
Peppermint2
Percholorethylene 2
PeridoxRTU Sporicidal Disinfectant and Cleaner (EPA 8383-13)
Petrolatum
Phenol (Carbolic Acid)
Phenol 10%
Phosphoric Acid (Crude)
Phosphoric Acid (to 40% Solution)
Photographic (Developer)
Phthalic Anhydride
Picric Acid
Pine
Potash
Potassium Bicarbonate
Potassium Bromide
Potassium Carbonate
Potassium Chlorate
Potassium Chlorid
Potassium Chromate
Potassium Cyanide Solutions
Potassium Dichromate
Potassium Ferrocyanide
Potassium Hydroxide (50%)
Potassium Nitrate
Potassium Permanganate
Potassium Sulfate
Potassium Sulfide Propyl
ProForce Bathroom & Tile Cleaner with Bleach (CAS 7681-52-9)
Propylene Glycol
PUMA
Pure Bright Germicidal Ultra Bleach (EPA 70271-13)
Pyridine
Pyrogallic Acid
Rape Seed
Rhodium Plating 120°F
Rosin
Rosins
Rum
Rust Inhibitors
Salad Dressing

Chemicals That Have No Effect on Protea™ (Continued)

Scrubs Medaphene Plus Disinfecting Wipes (EPA 6836-340-11694)
Sea Water
Sesame Seed
Shellac (Bleached)
Shellac (Orange)
Silicone
Silver Bromide
Silver Nitrate (CAS 7761-88-8)
Silver Plating 80- 120°F
Soap Solutions1
Soda Ash (See Sodium Carbonate)
Sodium Acetate
Sodium Aluminate
Sodium Bicarbonate
Sodium Bisulfate
Sodium Bisulfite
Sodium Carbonate
Sodium Chlorate
Sodium Chromate
Sodium Cyanide
Sodium Hydroxide (20%)
Sodium Hydroxide (50% Solution)
Sodium Hydroxide (80% Solution)
Sodium Hypochlorite
Sodium Hypochlorite 3 (to 20%)
Sodium Metaphosphate
Sodium Metasilicate
Sodium Nitrate
Sodium Perborate
Sodium Peroxide
Sodium Polphosphate (Mono, Di, Tribasic)
Sodium Silicate
Sodium Sulfate
Sodium Sulfide
Sodium Sulfite
Sodium Tetraborate
Sodium Thiosulphate ("Hypo")
Sorghum
Soy Sauce
Spartan Diffense (EPA 5741-28)
Sperm
Stannic Chloride
Stannic Fluoborate
Stannous Chloride
Starch
Stearic Acid2
Steriplex SD Activator (Part B)
Steriplex SD Part A
Stoddard Solvent
Styrene
Sugar (Liquids)
Sulfamate 100- 140°F
Sulfamate 140°F
Sulfate Liquors
Sulfur Chloride
Sulfur Trioxide (dry)
Sulfuric Acid (10%- 75%)2
Sulfuric Acid (to 10%)
Sulfuric Acid 75%- 100%
Sulfurous Acid
Sulfuryl Chloride Syrup
Super-Chlor
Tallow
Tannic Acid
Tanning
Tanning Liquors
Tartaric Acid
Tecumseh B
Tin-Fluoborate Plating 100°F
Tine-Lead Plating 100°F
Tomato Juice
Trichlorethane
Trichloropropane
Triethylamine
Tubbs
Turbine
Turpentine3
UP & UP Concentrated Bleach with Fabric Protection (EPA 70271-20)
Urine
Varnish (Use Viton for Aromatic)
Vegetable Juice
Vinegar
Virex II 256 (EPA 70627-24)
Virex Plus (EPA 6836-349-70627)
Virex TB (EPA 70627-2)
Wampatuck C
Water, Acid, Mine
Water, Distilled, Lab Grade 7
Water, Fresh
Water, Salt
Weed Killers
Whey
Whiskey and Wines
White Liquor (Pulp Mill)
White Water (Paper Mill)
Zinc Chloride
Zinc Hydrosulphite





At Kwalu, we create nurturing environments that inspire care, comfort, and connection in healthcare and senior living.

For over 40 years, we've crafted high-quality, durable furniture that enhances the spaces where people live, heal, and build community. What sets us apart is Protea™, our proprietary, non-porous material that offers the beauty of wood with unmatched durability. Inspired by the resilient Protea flower, it ensures our furniture withstands high-traffic environments while remaining easy to clean and maintain.

kwalu®

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