

**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 list outlines chemicals and chemical products that have no effect on Protea.

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

Chemicals That Have No Effect on Protea® (Continued)

Dispatch Hospital Cleaner	Isopropyl Acetate	Nitric Acid (Concentrated Solution)
Disinfectant Towels with Bleach (EPA 56392-8)	Isopropyl Ethre 2	Octyl
Dyes	Isotane 2	Oleic Acid
Epsom Salts (Magnesium Sulfate)	Jet Fuel (JP#, JP4, JP5)	Olive
Ethane	Kerosene2	Orange
Ethanolamine	Kimtech Germicidal Wipe	Osceola 160C
Ethyl	Kimtech Surface Sanitizer Wipe (EPA 9402-9)	Oxalic Acid (cold)
Ethyl Acetate2	Lactic Acid	Oxivir TB (EPA 70627-56)
Ethyl Sulfate	Lard	Oxivir TB Wipes (EPA 70627-60)
Ethylene Glycol4	Latex	alm
Faeces	Lead Acetate	Paraffin
Fatty Acids	Lead Fluoborate Plating	PDI Sani-Cloth Bleach Germicidal Disposable Wipe (EPA 9480-8)
Ferric Chloride	Lead Sulfamate Lemon	PDI Super Sani-Cloth Germicidal Disposable Wipe (EPA 9480-4)
Ferric Nitrate	Ligroin3	PDI Sani-HyPerCide Germicidal Spray (EPA 9480-14)
Ferric Sulfate	Lime	Peanut3
Ferrous Chloride	Linseed	Pentane
Ferrous Sulfate	Lubricants	Peppermint2
FF-ATH	Lysol All-Purpose Cleaner (EPA 777-66)	Percholorethylene 2
Fluoboric Acid	Lysol Bleach Multi-Purpose Cleaner (EPA 777-83)	PeridoxRTU Sporicidal Disinfectant and Cleaner (EPA 8383-13)
Fluoride Bath	Magnesium Carbonate	Petrolatum
Fluosilicate Bath	Magnesium Chloride	Phenol (Carbolic Acid)
Fluosilicic Acid	Magnesium Hydroxide	Phenol 10%
Formaldehyde	Magnesium Nitrate	Phosphoric Acid (Crude)
Formaldehyde 40%	Magnesium Oxide	Phosphoric Acid (to 40% Solution)
Freon 11 1	Magnesium Sulfate	Photographic (Developer)
Freon 12 (wet)2	Maleic Acid	Phthalic Anhydride
Freon T.F.4	Maleic Anhydride	Picric Acid
Fruit Juice	Malic Acid	Pine
Fuel Oils	Mash	PPotash
Furan Resin	Massasoit A	Potassium Bicarbonate
Gallic Acid	Mayonnaise	Potassium Bromide
Gelatin	Mehtyl Bromide	Potassium Carbonate
Geronimo 160A	Melamine	Potassium Chlorate
Ginger	Mercuric Chloride (Dilute Solution)	Potassium Chlorid
Glucose	Mercuric Cyanide	Potassium Chromate
Glue P.V.A.1	Mercury Methanol (See Alcohol Methyl)	Potassium Cyanide Solutions
Glycerine	Metacomet 160B	Potassium Dichromate
Gold Monocyanide	Methyl Acetate	Potassium Ferrocyanide
Grape Juice	Methyl Acetone	Potassium Hydroxide (50%)
Grease 4	Methyl Acrylate	Potassium Nitrate
Haste-SSD-Component A	Methyl Cellosive	Potassium Permanganate
Haste-SSD-Component B	Methyl Dichloride	Potassium Sulfate
Heptane	Methyl Isobutyl Ketone 2	Potassium Sulfide Propyl
Hexyl	Methyl Methacrylate	ProForce Bathroom & Tile Cleaner with Bleach (CAS 7681-52-9)
High Speed Brass Bath 110°F	Methyl6	Propylene Glycol
Honey	Methylamine	PUMA
Hydraulic Oils (petroleum)1	Methylene Chloride	Pure Bright Germicidal Ultra Bleach (EPA 70271-13)
Hydrazine	Methyl Isopropyl Ketone	Pyridine
Hydrobromic Acid (Dry gas)	Micro-Kill Bleach Germicidal Bleach Solution (EPA 37549-2)	Pyrogallic Acid
Hydrobromic Acid 4	Micro-Kill Bleach Germicidal Bleach Wipes (EPA 37549-1)	Rape Seed
Hydrocyanic Acid	Milk	Rhodium Plating 120°F
Hydrocyanic Acid (Gas 10%)	Mineral	Rosin
Hydrogen Gas	Molasses	Rosins
Hydrogen Peroxide	Mustard	Rum
Hydrogen Peroxide 10%	Naptha	Rust Inhibitors
Hydrogen Peroxide 30%	Nickel Chloride	Salad Dressing
Hydrogen Sulfide (dry)	Nickel Sulfate	Scrubs Medaphene Plus
Hydrogen Sulfide, Aqueous Solution	Nitric Acid (10% Solution)	Disinfecting Wipes (EPA 6836-340- 11694)
Hydroxyacetic Acid (70%)	Nitric Acid (20% Solution)	
Indium Sulfamate Plating R.T.	Nitric Acid (50% Solution)	
Ink		
Iodoform		
Isobutyl		
Isopropyl		

Chemicals That Have No Effect on Protea® (Continued)

Sea Water
 Sesame Seed
 Shellac (Bleached)
 Shellac (Orange)
 Silicone
 Silver Bromide
 Silver Nitrate
 Silver Plating 80- 120°F
 Soap Solutions
 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

Tine-Lead Plating 100°F
 Tin-Fluoborate 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
 Bleach-Rite Disinfecting Spray with Bleach (EPA 70590-2)



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.

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