

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

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 1 Wipes (EPA 70627-77)
Ethyl Sulfate	Lard	Oxivir TB (EPA 70627-56)
Ethylene Glycol4	Latex	Oxivir TB Wipes (EPA 70627-60)
Faeces	Lead Acetate	Palm
Fatty Acids	Lead Fluoborate Plating	Paraffin
Ferric Chloride	Lead Sulfamate Lemon	PDI Sani-Cloth Bleach Germicidal Disposable Wipe (EPA 9480-8)
Ferric Nitrate	Ligroin3	PDI Sani-HyPerCide Germicidal Spray (EPA 9480-14)
Ferric Sulfate	Lime	PDI Super Sani-Cloth Germicidal Disposable Wipe (EPA 9480-4)
Ferrous Chloride	Linseed	Peanut3
Ferrous Sulfate	Lubricants	Pentane
FF-ATH	Lysol All-Purpose Cleaner (EPA 777-66)	Peppermint2
Fluoboric Acid	Lysol Bleach Multi-Purpose Cleaner (EPA 777-83)	Perchlorethylene 2
Fluoride Bath	Magnesium Carbonate	PeridoxRTU Sporidical Disinfectant and Cleaner (EPA 8383-13)
Fluosilicate Bath	Magnesium Chloride	Petrolatum
Fluosilicic Acid	Magnesium Hydroxide	Phenol (Carbolic Acid)
Formaldehyde	Magnesium Nitrate	Phenol 10%
Formaldehyde 40%	Magnesium Oxide	Phosphoric Acid (Crude)
Freon 11 1	Magnesium Sulfate	Phosphoric Acid (to 40% Solution)
Freon 12 (wet)2	Maleic Acid	Photographic (Developer)
Freon T.F.4	Maleic Anhydride	Phthalic Anhydride
Fruit Juice	Malic Acid	Picric Acid
Fuel Oils	Mash	Pine
Furan Resin	Massasoit A	Potash
Gallic Acid	Mayonnaise	Potassium Bicarbonate
Gelatin	Mehtyl Bromide	Potassium Bromide
Geronimo 160A	Melamine	Potassium Carbonate
Ginger	Mercuric Chloride (Dilute Solution)	Potassium Chlorate
Glucose	Mercuric Cyanide	Potassium Chlorid
Glue P.V.A.1	Mercury Methanol (See Alcohol Methyl)	Potassium Chromate
Glycerine	Metacomet 160B	Potassium Cyanide Solutions
Gold Monocyanide	Methyl Acetate	Potassium Dichromate
Grape Juice	Methyl Acetone	Potassium Ferrocyanide
Grease 4	Methyl Acrylate	Potassium Hydroxide (50%)
Haste-SSD-Component A	Methyl Cellosive	Potassium Nitrate
Haste-SSD-Component B	Methyl Dichloride	Potassium Permanganate
Heptane	Methyl Isobutyl Ketone 2	Potassium Sulfate
Hexyl	Methyl Methacrylate	Potassium Sulfide Propyl
High Speed Brass Bath 110°F	Methyl6	ProForce Bathroom & Tile Cleaner with Bleach (CAS 7681-52-9)
Honey	Methylamine	Propylene Glycol
Hydraulic Oils (petroleum)1	Methylene Chloride	PUMA
Hydrazine	Methylul Isopropyl Ketone	Pure Bright Germicidal Ultra Bleach (EPA 70271-13)
Hydrobromic Acid (Dry gas)	Micro-Kill Bleach Germicidal Bleach Solution (EPA 37549-2)	Pyridine
Hydrobromic Acid 4	Micro-Kill Bleach Germicidal Bleach Wipes (EPA 37549-1)	Pyrogalllic Acid
Hydrocyanic Acid	Milk	Rape Seed
Hydrocyanic Acid (Gas 10%)	Mineral	Rhodium Plating 120°F
Hydrogen Gas	Molasses	Rosin
Hydrogen Peroxide	Mustard	Rosins
Hydrogen Peroxide 10%	Naptha	Rum
Hydrogen Peroxide 30%	Nickel Chloride	Rust Inhibitors
Hydrogen Sulfide (dry)	Nickel Sulfate	Salad Dressing
Hydrogen Sulfide, Aqueous Solution	Nitric Acid (10% Solution)	Scrubs Medaphene Plus 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	Sodium Sulfite	Tin-Fluoborate Plating 100°F
Sesame Seed	Sodium Tetraborate	Tine-Lead Plating 100°F
Shellac (Bleached)	Sodium Thiosulphate ("Hypo")	Tomato Juice
Shellac (Orange)	Sorghum	Trichlorethane
Silicone	Soy Sauce	Trichloropropane
Silver Bromide	Spartan Diffense (EPA 5741-28)	Triethylamine
Silver Nitrate (CAS 7761-88-8)	Sperm	Tubbs
Silver Plating 80- 120°F	Stannic Chloride	Turbine
Soap Solutions1	Stannic Fluoborate	Turpentine3
Soda Ash (See Sodium Carbonate)	Stannous Chloride	UP & UP Concentrated Bleach with Fabric Protection (EPA 70271-20)
Sodium Acetate	Starch	Urine
Sodium Aluminate	Stearic Acid2	Varnish (Use Viton for Aromatic)
Sodium Bicarbonate	Steriplex SD Activator (Part B)	Vegetable Juice
Sodium Bisulfate	Steriplex SD Part A	Vinegar
Sodium Bisulfite	Stoddard Solvent	Virex II 256 (EPA 70627-24)
Sodium Carbonate	Styrene	Virex Plus (EPA 6836-349-70627)
Sodium Chlorate	Sugar (Liquids)	Virex TB (EPA 70627-2)
Sodium Chromate	Sulfamate 100- 140°F	Wampatuck C
Sodium Cyanide	Sulfamate 140°F	Water, Acid, Mine
Sodium Hydroxide (20%)	Sulfate Liquors	Water, Distilled, Lab Grade 7
Sodium Hydroxide (50% Solution)	Sulfur Chloride	Water, Fresh
Sodium Hydroxide (80% Solution)	Sulfur Trioxide (dry)	Water, Salt
Sodium Hypochlorite	Sulfuric Acid (10%- 75%)2	Weed Killers
Sodium Hypochlorite 3 (to 20%)	Sulfuric Acid (to 10%)	Whey
Sodium Metaphosphate	Sulfuric Acid 75%- 100%	Whiskey and Wines
Sodium Metasilicate	Sulfurous Acid	White Liquor (Pulp Mill)
Sodium Nitrate	Sulfuryl Chloride Syrup	White Water (Paper Mill)
Sodium Perborate	Super-Chlor	Zinc Chloride
Sodium Peroxide	Tallow	Zinc Hydrosulphite Bleach-Rite Disinfecting Spray with Bleach (EPA 70590-2)
Sodium Polphosphate (Mono, Di, Tribasic)	Tannic Acid	
Sodium Silicate	Tanning	
Sodium Sulfate	Tanning Liquors	
Sodium Sulfide	Tartaric Acid	
	Tecumseh B	



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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