PRECISION BRUSH

☎ 1-800-252-4747

Chemical Reactivity with Brush Materials

A - No Effect
B - Minor Effect
C - Moderate Effect
D - Severe Effect

Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Acetaldehyde	Aldehyde/Ketone	B	A	C	A	A	A	A		A	D	A	C	B	C	C	A	C	D	A						
Acetamide	Amide	A		C			B	A				B	A		U		A	B	D		D		D	B		
Acetate Solvent	Ester	A	A				A	A		A			A			A	A	B	D		C		A			
Acetic Acid	Organic Acid	B	C	C			B	A	S	A	C	D	D		D			A	D	A						
Acetic Acid 10%	Organic Acid	B	D	C			B	A		A	B	C	C	A	B	B	A	B	B	A	A		A			M
Acetic Acid 20%	Organic Acid	B	D				B	A		A	C	C	D	A	B	A	A	A	D	A	A		A	A		M
Acetic Acid 05%	Organic Acid			D			A	A					C		B			B		A	A		A	A		S
Acetic Acid 80%	Organic Acid	B	C	D	A		D	B		A	D	D	D	A		A	A	A	D	A						
Acetic Acid, Glacial	Organic Acid	B	A	A	A		C	A	A	A	D	D	C	A		A	A	A	D	A				A		
Acetic Anhydride	Organic Acid	B	D	D	A	S	B	A	S	A	D	D	C			A	A	B	D	A	A		A	A		
Aceto-acetic ester	Ester										D													A		
Acetone	Aldehyde/Ketone	A	A	A	A	A	A	A	B	A	D	A	A	A	C	B	A	A	D	A	A		A	A		U
Acetonitrile	Nitro													A						A	B					
Acetophenone							C	A					A		U		C	U		A	A		A	B		U
Acetyl Bromide	Halogenated Hydrocarbon												D						D	A	B		A	A		
Acetyl Chloride				U			A	A							D					A						
Acetyl Chloride (dry)		D	D		A		A	A			D	D	B				A	D	C	A	A		A	A		
Acetyl Nitrile																			B		A					
Acetyl Salicylic acid											D										A		A	A		
Acetylene	Aliphatic Hydrocarbon	A	B	A		A	A	A	A			A	A	A			A	A	C	A	A		A	A		
Acid Chloride 104° F		*	*	*			*	D		A	*	*	D					A	A	A						
Acid Fluoborate Bath R.T.										D			D					A	A	A	D		A	A		
Acid Sulfate Bath 150° F													D			–		A								
Acid fumes											D			A												
Acrylic Acid													U	A			A	A		A				A		
Acrylonitrile		B	B	U	B	A	A	A			D	B	A					A	B	A	A			A		
Adipic Acid	Organic Acid	A	A	A			A	A					U					B	A	U	A		A			
Alcohol, Allyl	Alcohol												A		A				C		A		A			
Alcohol, Amyl	Alcohol	C	B	C	A	A	A	A		A	B	A	A		B	B	A	B	C	A						
Alcohol, Benzyl	Alcohol	B	C	A	A		A	B		A	D	A	B			D	A	A	D	A	C		A			
Alcohol, Butyl [Butanol]	Alcohol	B	C	C	A		A	A		B	A	A	D			A	A	A	C	A						
Alcohol, Butyl Phthalate	Alcohol	B	A		B		B	B		B		B	A				A	B		A				A		
Alcohol, Cetyl	Alcohol												B		A			B			D					
Alcohol, Diacetone	Alcohol	A	A	A	A		A	B		A		A	A		D	B		B	B	A	A		A	B		
Alcohol, Ethyl [Ethanol]	Alcohol	B	C	A	A		A	A		A	B	B	A		A	B	A	A	C	A						
Alcohol, Furfuryl	Alcohol	A	A	A	B		A	B		A	D	B	B		B	D	A	C	D	A	A		A	A		
Alcohol, Heptyl	Alcohol												C								A		A	A		

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Alcohol, Hexyl	Alcohol	A	C	A	A		A	A		A		A	A					A	A	A						
Alcohol, Isobutyl	Alcohol	B	C	A	A		A	A		B	B	A	A			A		A	A	A	A		A	A		
Alcohol, Isopropyl	Alcohol	B	C	A	A		B	A		B		A	D		D	A	A	A	A	A	D			A		
Alcohol, Lauryl	Alcohol												B		B			B			A			B		
Alcohol, Methyl [Methanol]	Alcohol	B	B	A	A		A	A		B	D	C	B	A		A	A	A	B	A	B		A			
Alcohol, Nonyl	Alcohol												B		B			B			A		A	A		
Alcohol, Octyl	Alcohol	A	C	A	C		A	A		A	A	A	A		A	A		A						A		
Alcohol, Propyl	Alcohol	A	A	A	A		A	A		A	B	A	D			A	A	A	A	A	A		A	A		
Aliphatic esters	Ester										D			A							D		A	A		
Alkaline Cyanide Bath R.T.										A			A					A	A	A			A	A		
Alkyl Chlorides											D															
Aluminum Potassium Sulfate 10%	Salt	A	A	A	C		A	A		A	*	C	A			A		A	A	A						
Aluminum Potassium Sulfate 100%	Salt	B	*	A			D	A	S	A	*	C	D			B		A	A	A						
Aluminum Acetate				A			A	A										A	A	A				C		
Aluminum Chloride	Salt	D	D	A	A	C	B	B	U	B	A	C	U	A	B	B	A	A	A	A	A		A	A		
Aluminum Fluoride	Salt	B		A			D	D	U	D	A	C	D			B	A	A	A	A			A			
Aluminum Hydroxide	Inorganic Base	B	B	A	B		A	C	E	B	B	B	A		A			A	A	A	C		B			
Aluminum Nitrate	Nitro	D	A	U	B		C	A		A		B	A					A	B	A	A		A	B		
Aluminum Oxylchloride																			A		A		A	A		
Aluminum Sulfate	Salt	B	B	A	C		A	A	E	A	A	C	A	A	A	B	A	A	A	A	A		A	A		C
Alums													A			–		A								
Amines	Amine	B	B	A	B	E	A	B		B		D	A				B	B	A	A				A		
Ammonium 10%	Inorganic Base	A	A	A	A		A	A		C		D	A	A		B	A	A	B	A						
Ammonium Nitrate	Salt	C	C	D	B	E	A	A	E	A		C	D			B	A	A	B	A	A		A			
Ammonium Anhydrous	Inorganic Base	A	D	B	B		B	A		C	A	D	A	A		B	A	A	A	A			B	A		
Ammonium Aqueous											A			A					A		A			A		
Ammonium Liquid	Inorganic Base	D	A	A	B		B	A		C		D	B	B		D	A	A	A	A						
Ammonium Acetate	Salt	A	D				B	A					A					A	A	A	D		D	C		
Ammonium Alum		A						A		A			A					A	A		A		A	A		
Ammonium Bifluoride	Salt	B	A		B		D	B			A	D						A	A	A	A		A	D		
Ammonium Bisulfate	Salt																		A				A	B		
Ammonium Carbonate	Salt	B	A	B	B	S	B	B	E	A	A	D	U		D		A	A	A	A	D		A	C		
Ammonium Caseinate	Salt							A				D														
Ammonium Chloride	Salt	B	D	U	D	D	B	CB	E	B	A	B	U	A		B	A	A	A	A	A		C	D		
Ammonium Fluoride				U			D	D											A	A				A		
Ammonium Hydroxide	Inorganic Base	B	D	B	B	E	A	A	E	A	B	C	A	A	A	A	A	A	A	A	B		A	A		
Ammonium Metaphosphate	Salt																		A		A		A			
Ammonium Oxalate				A	A		A	A	E			B						A	A		A		A			
Ammonium Persulfate	Salt	C	C	A	B		A	B	E	A	A	D	D					A	A	A				A		
Ammonium Phosphate, Dibasic	Salt	B	A	D	B		B	C		A	A	B	B			B	A	A	A	A	A		A			
Ammonium Phosphate, Monobasic	Salt	B		A			B	C		A		B	B			B		A	A	A	A		A	A		
Ammonium Phosphate, Tribasic	Salt	B		D	B		B	B		A		B	B			B		A	A	A			A	C		

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Ammonium Sulfate	Salt	A	D	D	B	C	B	B	E	A	A	B	A			C	A	A	A	A	A		A	A		
Ammonium Sulfide		D	D				B	B				D	A					A	A	A	A		B	B		
Ammonium Sulfite	Salt												A			–		A								
Ammonium Tartrate																			A		A		A	A		
Ammonium Thio-sulfate	Salt	A	D	A			*	A		A		B							*					A		
Ammonium Thio-cyanate							A	A											D	A	A		A			
Amyl Acetate	Ester	B	A	C	A	B	A	A	D	A	D	B	B	A	A	D	A	U	B	A				D		
Amyl Chloride	Halogenated Hydrocarbon	D	A	A	A		C	B		C	D	A	C		B	D		D	D	A	D		A			U
Amyl Phthalate																								C		
Anhydride																										
Aniline	Organic Base	C	D	C	B	S	A	B	E	C	D	A	B	A		C	A	A	C	A				A		
Aniline Chlorohydrate																			C					A		
Aniline Hydrochloride		D	D		D		D	D		A	D		D					D	B	A	D		B	A		
Aniline Oils		C					A	A		A	D	D	C					A	D	A						
Anise Oils							A	A				A									A		A			
Anti-Freeze	Alcohol	A	B	C			A	A			B	D	A		A	B	A	B	A	A	D		A	A		
Antimony Plating					A			A					D					A	A	A						
Antimony Trichloride	Salt	D	D	B			D	D		B	A		D	A		E		A	C	A						
Aqua Regia (80% HCl, 20% HNO3)	Organic Acid	D	D	U	C		D	D		A	D	D	D	B	U		D	C	C	A				A		U
Arochlor 1248		A	A	A			B	B		A			A					D			D		A			
Aromatic Hydrocarbons	Aromatic Hydrocarbon	A		A	A			C				A	A	A	C	B		C	B	A						
Aromatic Solvents											D			A												
Arsenic Acid	Inorganic Acid	D	D				A	C		B	D	D	U				A	U	B	A						
Arsenic Salts	Salt												A						A		A		A	A		
Arsenic Trioxide (powder)																			A		B					
Arylsulfonic Acid																			A		D		B	A		
Asphalt	Aliphatic Hydrocarbon	B	B				B	A				B	A				A	B	A	A						
Barium Carbonate	Salt	D	B	C	B		C	A		A	B	A	A		A	B	A	A	A	A			A	A		
Barium Chloride	Salt	D	A	A	B		A	A		A	A	A	B			B	A	A	A	A	D		A	A		
Barium Cyanide	Salt	C	C	A	A		A	A				B	A			B		D	D	A	C		A	A		
Barium Hydroxide	Inorganic Base	C	A	B	B		B	B		B	A	D	A			B	A	B	A	A	A		A	A		
Barium Nitrate	Nitro	B	C	A			B	B		A		B	A					A	A	A	D			D		
Barium Sulfate	Salt	B	B	A	A		B	B		B	A	B	A				A	B	B	A	A		A	A		
Barium Sulfide	Salt	D	C	C			B	B		A	A	A	A			B		B	A	A				C		
Barium Sulfte		D	*	C			A	A		A	*	A	A					A	A	A						
Bay Oils							A	A				A									A		C	D		
Beer	Other Hydrocarbon	A	B	D	A	E	A	A		B	B	B	B	A		B	A	B	A	A			A			
Beet Sugar Liquids	Other Hydrocarbon	A	A				A	A		A	B	B	A					A	A	A	A		A			
Benzaldehyde	Aldehyde/Ketone	B	A	A	A	E	B	B		A	C	A	B	A		D	A	D	B	A	B		A	A		
Benzalkonium Chloride																			C		C		A			
Benzene	Aromatic Hydrocarbon	B	A	B	B	S	B	B	E	A	D	A	A	A	A	B	A	U	B	A			A			U
Benzene Sulfonic Acid	Inorganic Acid	D	A	A	B		B	B		B			D				A	D	A	A	A			A		

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Benzoic Acid	Organic Acid	B	A	A	B	S	B	B	E	A		B	C	A	B	B	A	B	B	A	A		B	A		S
Benzonitrile	Nitro		A		C		D	D									C			A	A		A	A		
Benzyl		B	A	A	B		A	A		A	D	A	B				A	B	D	A	A		-			
Benzyl Alcohol	Alcohol	B	C	*			A	A		A	D	A	A					A	D	*						
Benzyl Chloride	Halogenated Hydrocarbon	D	A		C		C	B			D	A	A				C	C	A					D		
Bicarbonate			A	C	B			B					A					A	A	A	A		B			
Bismuth Carbonate																			A				A	A		
Black Chrome Bath 115° F													D			–		A								
Black Liquor																			A					A		
Bleaching Liquors										A			C					B	A	A					A		
Bone Oils						A	A					A														
Borax (Sodium Borate)	Salt	B	B	C	B		A	A	E	B		B	A		A	B	A	B	A	A					A		
Boric Acid	Inorganic Acid	C	B	A	A	B	B	A	E	A	A	A	B	A	B	B	A	A	A	A					A		
Brake Fluid													B		B		A				C		A			U
Brass Bath 100º F		*	*	*		*	A		A	*	*	A						A	A	A						
Brass Plating High Speed Bath 110º F							A		A			A						A	A	A					C		
Brewery Slop	Other Hydrocarbon						A				B															
Brine (acid)																			A						C		
Brines, saturated													A							A		A		A		
Bromic Acid																			C						A		
Bromide (K) solution													A							A		A				
Bromine	Halogen	D	D	D	A		D	D		D	D	D	D	C		D	D	D	B	A							
Bromine (Wet)		D	A	D		U	D	D	U	A	D	D	D		U	U		D	B	A							
Bromobenzene																			C						A		
Bromotoluene																			A						D		
Bronze Plating Copper Cadmium Bronze Bath R.T.		*	*	*			*	A		A	*	*	A						A	A	A					B		
Bronze Plating Copper-Tin Bronze Bath 160º F								A		A			A						A	D	A			D			
Bronze Plating Copper-Zinc Bronze Bath 100º F								A		A			A						A	A	A			A			
Butadiene	Aliphatic Hydrocarbon	A	A	C	C	E	A	A			A	A	B				A	C	B	A			D			
Butane	Aliphatic Hydrocarbon	A	A	C	A		A	A		A	A	A	A			C	A	C	B	A			C	C		
Butter	Other Hydrocarbon	A					C	A			B	A	A		A			A		A	A		A			
Buttermilk	Other Hydrocarbon	A	A		A	E	A	A	E	A	B	A	B					A	A	A						
Butyl Acetate	Ester	A	A	A	A		B	C				A	B	A	D	C	A	B	D	A			A	A		
Alcohol, Butyl	Alcohol	B	C	C			A	A		B	*	A	A					B	A	A						
Butyl Amine	Amine	A	A		B			A		B		C	A				D	B	D	A			A	A		
Butyl Carbitol																			C		A		D			
Butyl Cellosolve							A	A											A							
Butyl Ether	Ether	A	A					A				D	A				A	D	A	A	A		A			
Butyl Mercaptan																			A		A		A			
Butyl Phenol	Phenol																		A					A		
Butyl Stearate																			A		A		A	A		
Butylene	Aliphatic Hydrocarbon	A	A	A		E	A	A				A	B				A		A	A	A		A	A		

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Butyne Diol																			A			A				
Butyric Acid	Organic Acid	B	A	U	A	B	B	B	E	A	D	B	U		A		A	B	B	A		A				
Cadmium Acetate																			A				A			
Cadmium Chloride																			A		A		A			
Cadmium Plating Cyanide Bath 90° F					A			A		A			A					A	A	A	A		A	A			
Cadmium Plating Fluoborate Bath 100° F					D			A		D			D					A	A	A	A		A				
Cadmium Sulfate	Salt																		A		A		A	A		
Caffeine Citrate																			A				A			
Calcium Acetate																			A					A		
Calcium Bisulfate	Salt	D	D				D	A					A					A	A	A			B			
Calcium Bisulfide	Salt	C			A		B	B		A		D	A			B		A	A	A			B	A		
Calcium Bisulfite	Salt												A2			A1		A								
Calcium Bisulfite Bleach Liquor		D	A		B		C	A		A		D	A				A	A	B	A	D		A	A		
Calcium Carbonate	Salt	D	A	A	B		A	B		B		A	A			B		A	A	A				B		
Calcium Chlorate	Salt			A			C	A				A	A			A			B	A						
Calcium Chloride	Salt	C	A	A	A		C	B		A	B	D	B	A	A	B	A	A	B	A						
Calcium Hydroxide	Inorganic Base	C	A	A	A		B	B		A		D	A	A			A	A	B	A			B			
Calcium Hypochlorite	Salt			U			U	U					D		A	B		A		A						
Calcium Hypochlorite 15%	Salt	D	A	A	B		C	B		A		D	C		B	B	A	A	B	B	A		A	A		
Calcium Nitrate	Salt	B	A	A	B		C	B		B	A	D	A				A	A	A	A	D		A	A		
Calcium Oxide	Salt	C			A		A	A		A	D	A	B				A	A	B	A	A		A	A		
Calcium Sulfate	Salt	C	A	A	B		B	B		A	C	A	B			B	A	A	B	A	A		A	A		
Calgon	Salt						A	A				B	A					A			D			D		
Camphor													A					D	A		D			D		
Cane Juice	Other Hydrocarbon	B	M				A	A				A	A					C	A	A	A		A	B		
Caprolactone																			A				A			
Carbitol																			A		A		B			
Carbolic Acid (Phenol)	Phenol	B	A	C	A		B	B		A	D	D	D		U		A	U	D	A			D			U
Carbon Bisulfide		B					A	B				A	A					D	D				A			
Carbon Dioxide			A	A	A													D		A	A					
Carbon Dioxide (aqueous solution)		B	B	A	A		A	A		A	B	A	A				A	A	B	A	A		A			
Carbon Dioxide (dry)		B	B1-		A		A	A		A	B	A	A				A	A	A	A	A		A			
Carbon Disulfide		B	B	C	B		C	B		B		A	B	A		D	A	D	C	A	A		A			
Carbon Monoxide		A	A		B		A	A				A	A			B		A	A	A			A			
Carbon Tetrachloride (dry)	Halogenated Hydrocarbon	D	A	A	B		B	B		A	D		B	A	B		A	D	A	A	A			A			
Carbon Tetrachloride (wet)	Halogenated Hydrocarbon	D	A	A	B		A	A		A	D	A	B		B		A	D		A	C		A	A		
Carbonated Water		A	D			S	A	A	E			A	A				A	B	A		A		A			
Carbonic Acid	Organic Acid	B	C	A	A	S	A	B	E	B		A	A	A		B	A	A	A	A	A		A			
Carene 500																			A		A		A			
Castor Oil		A					A	A				A	A		A			A	A		A		A			
Catsup		D					A	A	E		B	B	A					A	A		A		A	A		
Caustic Soda													C	A	C			B	A					A		

PRECISION BRUSH

☎ 1-800-252-4747

Chemical Reactivity with Brush Materials

A - No Effect
B - Minor Effect
C - Moderate Effect
D - Severe Effect

Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Cellosolve Acetate													B				A	A	A		A		B	A		
Champhor													B					B					A	A		
Chloracetic Acid	Inorganic Acid	C					D	D		A		D	D			D		D	A	A	A		A			
Chloral Hydrate																			A							
Chloramine	Amine																		A							
Chloric Acid	Inorganic Acid		D	-			U	U					D					-	U	A	A					
Chlorinated Glue	Halogenated Hydrocarbon	D					A	A			D	D	C													
Chlorinated Solvents																			A							
Chlorinated Water (Hypochlorite)	Halogen	D	D	A	A		C	C		A		D	C				D	D	C	A	A		A	A		
Chlorine (dry)	Halogen	C	D		A	S	A	B		D		D	D	A	D		D	D	D	A						
Chlorine (gas)														A					C		A		B			
Chlorine, Anhydrous Liquid	Halogen	D	D		D		C	C	U	D		C	D	A		D	D	D	D	A				A		
Chloroacetic Acid		D	C		A		B	A		A		D	D	A		B	A	B	B	A				A		
Chloroacetyl Chloride																			C					A		
Chlorobenzene (Mono)	Halogenated Hydrocarbon	B	B	B	A		A	B		B	D	C	B	A	C	D	A	D	D	B	A		A			
Chlorobromomethane	Halogenated Hydrocarbon			A									C					A	D	A	A		A	A		
Chloroform	Halogenated Hydrocarbon	B	B	B	A	E	A	A	E	A	D	A	C	A	D	B	A	B	D	A						U
Chloropicrin																			A							
Chlorosulfonic Acid	Inorganic Acid	C	B	A	A	U	D	B	U	A		D	D	A		D	D	D	C	A	A		-	A		
Chocolate Syrup		A					A	A				A	A					A		A				A		
Chromic Acid 05%	Inorganic Acid	C	C	A	B		B	A	S	A	B	D	D		D	B	A	C	A	A	A		A	A		
Chromic Acid 10%	Inorganic Acid	D	D	A	A		B	B		A	B	D	D				A	D	A	A	A		A	A		
Chromic Acid 30%	Inorganic Acid	D	C	A	D		B	B		A	B	D	D				B	D	A	A	A		A			
Chromic Sulfuric Bath 130° F		*	*	*			*	C		A	*	*	D					A	A	A				D		
Chromic/Nitric Acid (15%/35%)																			A				A	C		
Chromium Nitrate																			A					A		
Chromium Salts	Salt												B						A		A		A	A		
Chromium: Barrel Chrome Bath 95° F					D			D		C			D					A	A	A	C					
Chromium: Black Chrome Bath 115° F					D			C		A			D					A	A	A	A		C			
Chromium: Chromic-Sulfuric Bath 130° F					D			C		A			D					A	A	A				A		
Chromium: Flouride Bath 130° F								D		C			D					A	A	A	C		A	A		
Chromium: Fluosilicate Bath 95° F								C		C			D					A	A	A				C		
Cider	Other Hydrocarbon	B		A			A	A	E			A	A			B	A	A	A		A		A	A		
Cinnamon Oil							A	A				A						A		A	A		A	A		
Citric Acid	Organic Acid	C	C	A	A		B	A	E	A	C	B	C	A		B	A	B	B	A			A	A		
Citric Oils	Aliphatic Hydrocarbon	C					A	A				B	A		A			A			A		A	A		U
Clorox® (Bleach)	Salt	A			A		A	A			B	D	A				D	D	A	A				A		
Clove Oil							A	A				A	A					B						A		
Cocoa Butter													B		B			B			A		A	A		M
Coconut Oil		B					A	A				A	A		A			A						A		M
Cod Liver Oil		B					A	A			C	A	A		A			A			A			A		M
Coffee		A			A	E	A	A	E	A		A	A				A	A		A	B		A	A		

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Chemical Reactivity with Brush Materials

A - No Effect
B - Minor Effect
C - Moderate Effect
D - Severe Effect

Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Copper					A			A					A					A	A	A	D			A		
Copper (Electroless) 140° F		*	*	*			*	*		*	*	*	A					A	A	A						
Copper Acetate																			A		D			D		
Copper Carbonate	Salt																		A		C		A	C		
Copper Chloride	Salt	D		A			D	D		C	A	B	D			B	A	A	A	A	A		A	A		
Copper Cyanide	Salt	D	C	A	A		B	B		B		B	B			B	A	A	A	A	A					
Copper Fluoborate	Salt				C		D	D				B	D					A	A	A				D		
Copper Fluoride																			A							
Copper Nitrate	Nitro	D	C	A	B	S	A	A	S	B		B	D			B	A	A	A	A	A		A	A		
Copper Plating (Acid)													D											A		
Copper Pyrophosphate 140° F								A		A			A					A	A	A	A		B	A		
Copper Salts													D	A	D			D								M
Copper Strike Bath 120° F		A			A		A	A		A			A					A	A	A						
Copper Sulfate 5% Solution	Salt	D	D	A	A		B	B		A		C	D			B	A	A	A	A				A		
Copper Sulfate Bath R.T.	Salt							D		A			D					A	A	A						
Copper Tin Bronze Bath 160° F		*	*	*			*	A		A	*	*	A					A	D	A				C		
Copper Zinc Bronze Bath 100° F		*	*	*			*	A		A	*	*	A					A	A	A				B		
Copper: (Electroless) 140° F													A					A	A	A	D		B			
Corn Oil		B					A	A			C	A	A		A			A	A		A		A	A		
Corn Syrup																			A							
Cotton Seed Oil		B		C			A	A			C	A	A		A		A	A	A	A	A		A	A		M
Cream		A					A	A				A	A					A		A				A		
Cresols	Phenol	B	B		B		A	A		B	D	D	D			D	A	C	D		D		B			
Cresote Oil		A					A	A				D						D			A		A	A		
Cresylic Acid	Organic Acid	B	A		B	S	A	A		A	D	D	D	A		C		A	C	A	A		A	A		
Crotonaldehyde																			A		A		A	A		
Cumene																			A		A		A	A		
Cupric Acid	Inorganic Acid	D	A		A		D	B		A			D				A	A	A	A						
Cupric Fluoride																			A							
Cupric Sulfate	Salt																		A		A		A	A		
Cuprous Chloride																			A		A					
Cyanic Acid	Inorganic Acid						A	A				D								A	A					
Cyclanones																			C							
Cyclohexane	Aliphatic Hydrocarbon	A	A	A	B		A	A		A		A	A	A	A	B	A	C	D	A						
Cyclohexanol													B				A	B	C							
Cyclohexanone	Aldehyde/Ketone	A	A	A	A		A	A			D	A	A	A		C	A	C	D	A						
D.D.T. (Xylene Base)																			A							
Decalin													B		D			D								
Desocyephedrine Hydrochloride																			A							
Detergents	Salt	B	A	A	B		A	A		A	B	B	A	A	A	B	A	A	A	A						
Dextrin																			A							
Dextrose																			A							

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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Diacetone	Alcohol												M		U			S								
Diazo Salts																			C							
Dibutoxy Ethyl Phthalate																			C							
Dibutyl Phthalate																			A							
Dibutyl Sebacate															B			B	C							
Dichlorethane	Halogenated Hydrocarbon	B	B	A	A		B	B		B	D	A	A			D	C	D	D	A							
Dichlorobenzene	Halogenated Hydrocarbon	B	A		A			B			D		C					C	D	A						
Dichloroethane	Halogenated Hydrocarbon												A			C		D								
Dichloroethylene																			A							
Dichromate																										
Diesel Fuel (2D, 3D, 4D, 5D)	Aliphatic Hydrocarbon	A	A	A	B	E	A	A		B		A	A				A	A	A	A						
Diethyl Ether	Ether	B	B		B		B	B		A	D		A	A			A	A	D	A						
Diethylamine	Amine	B	A		A	E	A	A		A	D	C	A	A		C		A	B	A						
Diethylene Glycol	Alcohol	B	A		B		A	A		A	B	A	B		C	B		A	C	A						
Diethylketone	Aldehyde/Ketone												C		D			B								
Diisobutylene																	A									
Dill Oil																			C							
Dimethyl Amine	Amine																		C							
Dimethyl Aniline		A	A		B		B	B		A	D	D	A				A	D	D	A						
Dimethyl Formamide	Amide	A					A	B			D	D	C	A	B	A	A	A	D	A						
Dimethyl Hydrazine																			A							
Dimethyl Phthalate																	A									
Dimethyl Sulfoxide																	A									
Dioctyl Phthalate													A				C		C							
Dioxane													A						A							
Diphenyl Ether	Ether	B	B		B		B	B		B			D				C	D		A						
Diphenyl Oxide	Aromatic Hydrocarbon	B			B		B	A		A		C					A	D	D	A						
Disodium Phosphate	Salt																		A							
Dowtherm																	A									
Dry Gas																										
Dyes		B	A				A	A				C	A						B							
EDTA, Tetrasodium																			C							
Electroless 200º F													D					D	D	A						
Emulsifiers, concentrated													A													
Epichlorohydrin													C				C	B								
Epsom Salts (Magnesium Sulfate)	Salt	B	A		B		A	B		A	B	B	A				A	A	C	A						
Essential Oils													B					C								
Esters											D								A							
Ethane	Aliphatic Hydrocarbon	A	A				A	A				A	D				A	D	A	A							
Ethanol	Alcohol	B	A	A	A		A	A		A	B	A	A	A		B		A	C	A						
Ethanolamine	Amine	B	A	B	B		A	A		B		D	A				A	D	D	A						
Ether	Ether	B	B	B	B	E	A	A		A	D	A	B	A	B	B	A	C	D	A						U

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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Ethoxyethanol																A										
Ethyl Acetate	Ester	A	B	B	A		B	B		A	D	A	A		C	C	A	C	D	A						
Ethyl Acrylate																			A							
Ethyl Benzene																										
Ethyl Benzoate	Ester									D								B	D	A						
Ethyl Chloride	Halogenated Hydrocarbon	B	A	C	B		A	A		A	D	A	A			D	A	D	D	A						
Ethyl Ether	Ether	B	B		B		B	B		A	D	A	A		B		A	B	D	A						
Ethyl Sulfate	Salt		A				D	D				B								A						
Ethylene Bromide	Halogenated Hydrocarbon	B	A		B		A	A		B	D							D	D	A						
Ethylene Chloride	Halogenated Hydrocarbon	C	A	B			B	B		B	D	A	A			B	A	B	D	A						
Ethylene Chlorohydrin	Halogenated Hydrocarbon	B	B		B		B	B		B	D	D	D					D	D	A						
Ethylene Diamine	Amine	B	D		C		B	B		A	D	D	D				A		D	A						
Ethylene Dichloride	Halogenated Hydrocarbon	C	B	B	B		B	B		B	D	B	A		D	D	A	D	D	A						
Ethylene Glycol	Alcohol	A	B	B	B		B	B		A	A	B	A	A	B	A	A	A	A	A						
Ethylene Lactate		*	*	*			*	*		*	*	*	C					*	*	*						
Ethylene Oxide	Other Hydrocarbon	D	C		A		B	B			D	D	B		B		D	D	D	A						
Fatty Acids	Organic Acid	A	B	A	A		B	A		B	A	A	A			B		A	A	A						
Ferric Acetate																			A							
Ferric Chloride	Salt	D	C		B		D	D		A	A	D	C	A		B	A	A	A	A						
Ferric Hydroxide																			A							
Ferric Nitrate	Salt	D	C		B		B	B	E	A	A	C	B			B	A	A	A	A						
Ferric Sulfate	Salt	D	C	A	A	C	B	A		A	B	C	A				A	A	A	A						
Ferrocyanide																										
Ferrous Am Sulfate 150ºF	Salt		-	-	A			C					D					A	D	A	D						
Ferrous Chloride	Salt	D	C		B		D	D	U	A	A	C	D		B	B	A	A	A	A						
Ferrous Chloride Bath 190º F	Salt				D			D		A			D					C	D	A						
Fish Solubles																			B							
Fluoborate Bath 100º F								A		D			D					A	A	A						
Fluoborate Bath 145°F					B			D		D			D					A	D	A						
Fluoboric Acid	Halogenated Hydrocarbon	D	A	C	A		B	B		D	A	A	D				A	A	A	A						
Fluoride Bath 130°F					D			D		C			D					A	A	A						
Fluorinated refrigerants														A												
Fluorine	Halogen	A	B		B		C	A		D	A	D	D	A			D	D	D	B						
Fluosilicate Bath 95°F					D			C		C			D					D	A	A						
Fluosilicic Acid	Inorganic Acid	D	B	C	B		C	B		D	A	A	D			S	A	A	D	A						
Formaldehyde	Aldehyde/Ketone	A	B	A			A	A		A	*	A	A		S	S		A	A	A						
Formaldehyde 40%	Aldehyde/Ketone	B	A		B		C	A		B	B	A	C	A	B		A	A	A	A						
Formic Acid	Organic Acid	C	B	D	A		B	A		C	D	C	D	A	B	B	A	A	C	A						
Freon 11	Halogenated Hydrocarbon	C		B	A		A	A		B	D	D	B			C	A	A	A	A						
Freon 113	Halogenated Hydrocarbon	B		A	A			A		C		A	A				A	D	B	A						
Freon 114	Halogenated Hydrocarbon																		A							
Freon 12	Halogenated Hydrocarbon	B	B		A		B	B		B	A	B	A			C	B	A	B	A						

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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Freon 12 (Wet)	Halogenated Hydrocarbon	B	*	*			*	D		*	B	A	A					A	B	A						
Freon 21	Halogenated Hydrocarbon																		C							
Freon 22	Halogenated Hydrocarbon	C	A		A		A	A		B		A	B				A	B	B	A						
Freon T.F.	Halogenated Hydrocarbon	C		A	A		A	A		B		A	C				D	D	B	A						
Fructcose																			A							
Fruit Juice	Other Hydrocarbon	A	D	C	A		A	A		A	B	C	A	A		B		B	B	B						
Fuel (1, 2, 3, 5A, 5B, 6)	Other Hydrocarbon	C	A	B	A		A	A		A	D	A	A			D	A	A	A	B						
Furan Resin		A		A	B		A	A				C					A	D	A	A						
Gallic Acid	Organic Acid	C	B	D	B		A	B		B			A				A	A	B	B						
Gasoline	Aromatic Hydrocarbon	A		A		E	A	A	E	D	D	A	A		B	D	A	C	C	A						U
Gasoline (high aromatic)	Aromatic Hydrocarbon	D					A	A		B	D	B	A					A	A						A	
Gasoline, leaded, ref.	Aromatic Hydrocarbon	A	A	A	A		A	A		A	D	A	A				A	B	B	A						
Gasoline, unleaded	Aromatic Hydrocarbon	A	A		A		A	A		A	D	A	A				A	C	C	A						
Gelatin	Other Hydrocarbon	A	C	D	A	E	A	A		A		B	A	A				A	B	A						
Ginger Oil							A	A				A														
Glue P.V.A.		B	A	A			B	A		A		A	A						C	A						
Glycerine	Alcohol	A	B	A	A	E	A	A		A	C	A	B	A	A		A	A	A	A						
Glycol Ethers																			A							
Glycol Ethylene											A			A												
Glycolic Acid	Organic Acid		A		A		A	A		A	B	B				B	A	A	B	A						
Gold Monocyanide	Salt						A	A				A								D						
Gold Plating Cyanide 150° F								A		A			A					A	D	A						
Gold Plating Neutral 75° F								C		A			A					A	A	A						
Gold Plating: Acid 75° F													A			–		A								
Grape Juice	Other Hydrocarbon	B					A	A		A	B	B	A			B			A	A						
Grease	Other Hydrocarbon	A	A	A	A		A	A				C	A						A	A						
Halocarbon Oils																			A							
Heptane	Aliphatic Hydrocarbon	A	A	B	A		A	A		A	C	A	A	A		B	A	B	B	A						
Hercolyn																			A							
Hexamine	Amine										D			A												
Hexane	Aliphatic Hydrocarbon	A	A	B	A	E	A	A		A	D	A	B	A	B	B	A	B	B	A						U
Hexanol, Tertiary																			C							
Hexene																	A									
High Chloride 130-160° F								C		A			D					A	D	A						
High Speed Bath 180° F								A		A			A					A	D	A						
High Speed Brass			A		A			A					A					A	A	A						
High-Speed Brass Bath 110° F													A			B		A								
Honey	Other Hydrocarbon	A			A		A	A			B	A	A					A	A	A						
Hydraulic Oil (Synthetic)	Other Hydrocarbon	A	B		A		A	A				A	A				A	D	A	A						
Hydraulic Oils (Petroleum)	Other Hydrocarbon	A	*	A			A	A		*	*	A	A					D	*	A						
Hydrazine	Nitro						A	A				C		A			C	C	A							
Hydrobromic Acid	Inorganic Acid	D		D		U	D	D	U	A		D	D			B	D	B	A	A						

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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Hydrobromic Acid 20%	Inorganic Acid	D	D				D	D		A		C	D	C		B	D	A	B	A						
Hydrobromic Acid 100%	Inorganic Acid	D	D				D	D		A	B	D	D	C		B	A	B	A	A						
Hydrochloric Acid 10%	Inorganic Acid										A		D	A	B		D	B	A	A						
Hydrochloric Acid 20%	Inorganic Acid	D					D	D		C	B	D	D	A		A	D	B	A	A						
Hydrochloric Acid 37%	Inorganic Acid	D					D	D		C	C	D	D		D	A	D	B	B	A						
Hydrochloric Acid (Dry Gas)	Inorganic Acid	D	D	D			C	C		C			A				A	B	A	A						
Hydrochloric Acid 100%	Inorganic Acid	D	D				D	D		D	D	D	D	A		A	D	B	C	A						
Hydrocyanic Acid	Inorganic Acid	A	C	C	A		B	A		B	B	B	B	A		B	B	A	B	A						
Hydrocyanic Acid (Gas 10%)	Inorganic Acid						D	D		A		C					D	A	A	A						
Hydrofgen Peroxide 30|%													U		S			M								
Hydrofluoric Acid	Inorganic Acid		A	C	B			D					D		D		D	B	C	A						
Hydrofluoric Acid (20%)	Inorganic Acid	D	*	*			D	D		D	*	D	D					A	D	A						
Hydrofluoric Acid (75%)	Inorganic Acid	D	*	*			C	D		D	*	D	D					B	C	A						
Hydrofluoric Acid 100%	Inorganic Acid	D		D			C	C		D	D	D	D	C		D	D	B	C	A						
Hydrofluoric Acid (50%)	Inorganic Acid	D					D	D		D	C	D	D				A	A	B							
Hydrofluosilicic Acid (20%)	Inorganic Acid	D					C	B		D		B	D				A	A	B	A						
Hydrofluosilicic Acid 100%	Inorganic Acid	D					D	D		D		B	D				A	A	B							
Hydrogen Gas		A	C	B	A		A	A		A			A				A	A	A	A						
Hydrogen Peroxide 10%		A	D				C	C		C	A	D	C	A		A	A	A	A							
Hydrogen Peroxide 100%		A	D				B	B		B	D	D	D	A		B	C	B	A	A						
Hydrogen Peroxide 03%													U		U			S								
Hydrogen Peroxide 30%		A	C		A		B	B		B		D	D		B	A	A	B	A	A						
Hydrogen Peroxide 50%													D			C2		B1								
Hydrogen Phosphide																			A							
Hydrogen Sulfide (Dry)	Inorganic Acid	D	C	B			C	A		*	*	*	D					*	A	A						
Hydrogen Sulfide (aqua)	Inorganic Acid	B	B	A			B	A		B	B	C	C	A		B	A	A	B	A						
Hydroquinone	Aldehyde/Ketone	B			A		B	B		B	D	A	D		B	B		A	A	A						
Hydroxyacetic Acid 70%	Organic Acid	D								B		C							C							
Hydroxylamine Sulfate																			A							
Hypochlorite			A	B	A			A					A					A	A	A						
Hypochlorous Acid																			C							
Indium Sulfamate Plating R.T.				A	A		C	C		A			D					A	A	A						
Ink		C		A		E	C	C			A	B	C			S			C	A						
Iodine	Halogen	D	D		A		D	D	U	A	D	C	B			B	D	C	B	A						
Iodine (In Acohol)	Halogen	B			B			B		C		D	C			D		B	B	A						
Iodine Tincture													D					B								
Iodoform	Halogenated Hydrocarbon	A		B	D	S	B	A		B	E		A						A	B						
Iron Plating Sulfamete 140o F								D		A			D					A	A	A						
Iron: Ferrous Chloride Bath 190° F								D		A			D					C	D	A						
Iron: Ferrous Sulfate Bath 150° F	Salt							C		A			D					A	D	A						
Iron: Fluoborate Bath 145° F								D		D			D					A	D	A						
Iron: Sulfate Chloride Bath 160° F	Salt	*	*	*			*	D		A	*	*	D					A	D	A				D		

PRECISION BRUSH

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Chemical Reactivity with Brush Materials

A - No Effect
B - Minor Effect
C - Moderate Effect
D - Severe Effect

Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Iso-octane	Aliphatic Hydrocarbon	A	A				A	A					A	A		A	A	A	A	A						
Isopropanol														A		A		A		A						
Isopropyl Acetate	Ester	C	A		B		C	B				D	B					B	D	A						
Isopropyl Ether	Ether	A	A	A	A		A	A				C	A			A		B	B	A						
Isotane	Aliphatic Hydrocarbon	C										A	D					D	A							
Jet Fuel (JP3, JP4, JP5)	Aliphatic Hydrocarbon	A	A	A	A	E	A	A		A		A	C				A	A	C	A						
Kerosene	Aliphatic Hydrocarbon	A	A	B	B	E	A	A	E	A	C	A	A		A	D	A	C	A	A						U
Ketones	Aldehyde/Ketone	B	A	A	A	E	A	A		A	A	B	A	A		B	A	B	C	B						
Kraft Liquors																			A							
Lacquer Thinners	Other Hydrocarbon	A	B		A		A	A		C	A	D	A					C	D	A						
Lacquer	Other Hydrocarbon	A	B	C	A	E	A	A			A	C	A					C	D	A						
Lactic Acid	Organic Acid	B	A	B	B	A	B	B	M	A	B	B	C	A	B	B	A	B	B	A						
Lanolin													B		B			B								
Lard	Other Hydrocarbon	A	A	C	A	S	A	A		A	C	A	A		A			A	A	A						
Latex	Other Hydrocarbon	A			A		A	A			B	B	A			B		A		A						
Lauric Acid																			A							
Lead Acetate	Ester	D	A	C	B		B	B		A	A	B	A	A		B	A	A	B	A						
Lead Chloride																			A							
Lead Fluoborate Plating								C		D			D					A	A	A						
Lead Nitrate	Salt	D	A		B		B	B			B						A	A	A	A						
Lead Sulfamate	Salt	C					C	C				A	B					A	B	B						
Lemon Oil		*	*	*			A	A		*	*	A	M		S			D	*	*						M
Ligroin		D						A	E			B	D					C		A						
Lime (CaO)	Salt	B	A				A	A		A	A	C	A	A					B	A						
Limonene																			A							
Linoleic Acid	Organic Acid	A	A				B	A			A	B						B	A	A						
Linoleic Oil																			A							
Linseed Oil		A					A	A			C	A	A					A	A							
Lithium Bromide																	A		A							
Lithium Chloride	Salt	D	A				A	A				A						A	D	A						
Lithium Hydroxide	Inorganic Base	D	B		B		B	B												A						
Lithium Sulfate	Salt																		A							
Lubricants	Other Hydrocarbon	A	A		A		A	A		A	B	A	A		B		A	A	B	A						
Lye: Ca(OH)2 Calcium Hydroxide	Inorganic Base	C	A	A	C		B	B		A		D	A		M		A	A	B	A						
Lye: KOH Potassium Hydroxide	Inorganic Base	D	D	D	B		B	A		D	A	A	C				A	A	B	A						
Lye: NaOH Sodium Hydroxide	Inorganic Base	D	D	A			B	B		B	C	C	A		C		A	A	A							
Magnesium Bisulfate	Salt	D		A	A		A	B					A					A	B	A						
Magnesium Carbonate	Salt	A					B	B		A	B	A	A		A	B		A	B	A						
Magnesium Chloride	Salt	D	C	C	A		D	D		A	B	B	A			B	A	A	B	A						
Magnesium Citrate																			A							
Magnesium Fluoride																			A							
Magnesium Hydroxide	Inorganic Base	C	C	B	A		B	A		A	B	A	B			B	A	A	A	A						

PRECISION BRUSH

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Chemical Reactivity with Brush Materials

A - No Effect
B - Minor Effect
C - Moderate Effect
D - Severe Effect

Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Magnesium Nitrate		B		A	A		B	B		A	B	A	A			B	A	A	A	A						
Magnesium Oxide		B					A	A				A							A	A						
Magnesium Sulfate (Epsom Salts)	Salt	B	B	B	B		B	B		A	B	A	A			B	A	A	A	A						
Maleic Acid	Organic Acid	B	A	B	B	S	A	B		A	A	C	A	A	B		B	B	A	A						S
Maleic Anhydride	Organic Acid	A					A	A				D						D		A						
Manganate, Potassium (K)											A			A												
Manganese Chloride																			A							
Manganese Sulfate	Salt	B	C	A	A		B	B		A	B	A	A				A		C	A						
Mash	Other Hydrocarbon	A					A	A				A	A													
Mayonnaise	Other Hydrocarbon	B		D	A	E	B	A			B	A	A					E	D	A						
Meat juices											A			A												
Melamine	Amine		D				D	D				C	A					A	D	A						
Mercuric Chloride (Dilute Solution)	Salt	D	D	D	C	U	D	D	U	A	B	B	D	A		B	A	B	A	A						
Mercuric Chloride 5%	Salt												U		S			S								
Mercuric Cyanide		D		C	A	E	C	C		A	B	A	A			B	A	B	A	B						
Mercuric Sulfate	Salt																		R							
Mercurous Nitrate		D	C	A	A		A	A		A	C							A	A	A						
Mercury		B	D	A	A	E	A	A	E	B	B	A	A	A		B		B	A	A						
Metaphosphate	Salt				A			A										A	A	A						
Methane	Aliphatic Hydrocarbon	A	B		A		A	A				A	A				A	A	B	A						
Methaylamine	Amine	A		B				A				D														
Methoxyethyl Oleate																										
Methyl Acetate	Ester	A	A	B	A		A	B			D	A	A		D			D	D	A						
Methyl Acetone	Aldehyde/Ketone	A	A	A			A	A				A	A						D	A						
Methyl Acrylate	Ester						A					B					A	D								
Methyl Bromide	Halogenated Hydrocarbon	D	A				A	A			C	C	B			D		C	D	A						
Methyl Butyl Ketone	Aldehyde/Ketone	A					A	A				D	D					D	A							
Methyl Cellosolve	Other Hydrocarbon	B	A				B	B				C	C					B	D	A						
Methyl Chloride	Halogenated Hydrocarbon	D	A		B		C	A		A	D	B	B			D	B	D	D	A						
Methyl Dichloride	Halogenated Hydrocarbon											A	C					C	A							
Methyl Ethyl Ketone	Aldehyde/Ketone	B	A	A	A		A	A		A	D	C	A	A	C	B	A	B	D	A						
Methyl Formate																			C							
Methyl Isobutyl Ketone	Aldehyde/Ketone	B	A		A		B	B		A	D	B	B		D		A	C	D	A						
Methyl Isopropyl Ketone	Aldehyde/Ketone	A	A				A	A				B	A						D	A						
Methyl Methacrylate	Ester						B	B				C					A	D	A							
Methyl Propyl Ketone	Aldehyde/Ketone												A		D			C								
Methyl Salicylate																			R							
Methyl Sulfate	Salt																		R							
Methyl Sulfuric Acid																			C							
Methyl tert-Butyl Ether (MTBE)																										
Methylamine	Amine	A	C				A	A			D	D						A	D	A						
Methylene Bromide																			C							

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Chemical Reactivity with Brush Materials

A - No Effect
B - Minor Effect
C - Moderate Effect
D - Severe Effect

Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Methylene Chloride		C	A	B	B	E	B	B		B	D	B	C	A	D	B	A	B	D	A						U
Methylene Chlorobromide																			C							
Methylene Iodine																			C							
Methylpyrrolidinone																C										
Milk		A	C	C	A	E	A	A	E	A	B	A	A	A	A	B		A	A	A						S
Mineral Oil		A		B			A	A				A	A		A		A	C	A							S
Mineral Spirits		A	A		B		A	A		B	D	A	A				A	B	A	A							
Molasses		A	B	A	A		A	A		A	B	A	A	A		B		B	B	A							
Monochloroacetic acid	Inorganic Acid	D	B		A		A	A		A		D	D							A							
Monochlorobenzene													A		C			D								U
Monoethanolamine	Amine	B	A				A	A		B	D	D	A				A	B	B	A							
Morpholine	Aromatic Hydrocarbon	A	A		A			A			C		A				C	B		A							
Motor oil	Other Hydrocarbon	A	A	A			A	A		A	C	B	A		B		A	A	B	A							
Muriatic Acid																			B							
Mustard		B	A	B	A	E	A	A		A	B	C	A					A	B	A							
Naptha	Aromatic Hydrocarbon	A	*	B		E	A	A	E	A	C	A	A			U		A	A	A							
Napthalene	Aromatic Hydrocarbon	B	A	A	A	S	A	B		A	*	A	*			U		B	D	A							
Natural Gas	Other Hydrocarbon	A					A	A			B	B	A					A	A	A							
Nickel Acetate																			A							
Nickel Chloride	Salt	D	B	A	B		C	C		A	A	A	C			B	A	A	A	A							
Nickel Nitrate	Salt	D		A	B		B	B			A		A					A	A	A							
Nickel Sulfate	Salt	D	C	C	B		B	B		B	B	A	A			B	A	A	A	A							
Nickel Salts	Salt										A		A	A													
Nickel: Electroless 200º F													D					D	D	A							
Nickel: Fluoborate 100 170ºF					A			C					D					A	A	A	A						
Nickel: High Chloride 130 160º F		*	*	*			*	C		A	*	*	A					A	D	A				D			
Nickel: Sulfamate 100 140º F					A			C					A					A	A	A	A						
Nickel: Watts Type 115 160ºF					A			C					A					A	D	A	D						
Nicotine Acid																			A							
Nitrating Acid	Inorganic Acid		-	-	A			A					-					C	D	A	-						
Nitric Acid (10% Solution)	Inorganic Acid	D	D	C			A	A		A	C	D	D	C		B	B	C	A	A							
Nitric Acid (20% Solution)	Inorganic Acid	D	D	A	A		A	A		A	D	D	D	A		B	C	A	A	A							
Nitric Acid (50% Solution)	Inorganic Acid	D	D	A	A		A	A		A	D	D	D	A		C	C	C	B	A							
Nitric Acid (Concentrated Solution)	Inorganic Acid	C	D	A	B		C	B		A	D	D	D			D	C	D	D	A							
Nitric acid (fuming)	Inorganic Acid										D			D													
Nitrobenzene	Inorganic Base	B	B	B	D	S	B	B		A	D	C	C			D	A	C	D	A							
Nitrogen Fertilizer			-	-	-			-					-					-	-	A	-						
Nitroglycerine																			C							
Nitroglycol																			A							
Nitromethane	Halogenated Hydrocarbon	A	A		A		A	A			D	A	B				A	B	B	A							
Nitrous Acid	Inorganic Acid	D	D		D		B	B			D							A	A	A							
Nitrous Oxide		B	B		B		B	B					C					D	A	A							

PRECISION BRUSH

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A - No Effect
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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Ocenol																			A							
Oleic Acid	Organic Acid	A	B	B	A	S	A	A	S	B	C	B	A		S	D	A	B	C	A						M
Oleum 25%	Inorganic Acid	B	D		A		B	B		D		D	D				A	D	D	A						
Olive Oil		A		B			A	A				A	A					A	A	A						
Orange							A	A				A	A		A			A		A						
Orange Juice Conc.													S		S			S								
Orange Oil							A	A				A	A					A		A						
Oxalic Acid (cold)	Organic Acid	B	C	B	B		B	B		B	A	B	C	A			A	A	B	A						
Oxygen																			A							
Ozone		B					B	A			D	C	D	A	D		D	D	B	A						S
Paint Thinner													B		B			C								U
Palm Oil		A					A	A				A	A		A			A	A							
Palmitic Acid	Organic Acid	B	D		B		B	A			A	A	A		A			B	B	A						M
Paraffin	Aliphatic Hydrocarbon	A	A	A	B		A	A	E	A	B	A	A	A				A	B	A						
Peanut Oil		A	*	*			A	A		*	*	A	*		S			D	*	*						M
Pectin													B		A			B								S
Pentane	Aliphatic Hydrocarbon	B	A	B	A	E	C	C			D	B	A	A		C		C	A	A						
Peppermint Oil		*	*	*			A	A		*	*	A	*					D	*	*						
Peracetic Acid, 40%																			A							
Perchloric Acid	Inorganic Acid	D	A		B		C	C		D		C	D	A		B		B	C	A						
Perchloroethylene	Halogenated Hydrocarbon	C	A	A	B		B	A		A	D	B	C				A	D	C	A						
Peroxyacetic Acid																	D									
Peroxybenzoic Acid																	D									
Perphosphate	Salt																		A							
Petrolatum	Aliphatic Hydrocarbon	B	A	C	A	E	A	A			B	B	B					D	B	B						
Petroleum	Other Hydrocarbon	D	A				A	A		A	B	B	A					B		A						
Petroleum Distillate													A		A			C								
Petroleum Jelly													B		A			B								
Petroleum Liquifier																			A							
Petroleum Oils (Sour)																			C							
Phenol (Carbolic Acid)	Phenol	A	C	B	A		B	B		A	D	D	D	A		D	A	B	D	A						
Phenol 10%	Phenol	A	A	A	B		B	B		B	D	B	D	A			A	B	C	A						
Phenol 05%	Phenol												U		U			S								
Phenol 50%	Phenol												D	C			C	B								
Phenylhydrazine																			D							
Phenylhydrazine Hydrochloride																			A							
Phosgene, Gas																			C							
Phosgene, Liquid																			A							
Phosphoric Acid	Inorganic Acid		B	A	A			C					B	A		B	C	A	B	A						
Phosphoric Acid (40% 100% Solution)	Inorganic Acid	D	D	*			C	B		B	D	D	D					A	A	A				C		
Phosphoric Acid (>40%)	Inorganic Acid	C	D				D	D		C	C	D	B					A	B							
Phosphoric Acid (Crude)	Inorganic Acid	D	D	D			D	C		C	D	D	D					*	*	A						

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Chemical Reactivity with Brush Materials

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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Phosphoric Acid (molten)	Inorganic Acid	C	D				A	C		D	D	D	A			D	D	D	D	A						
Phosphoric Anhydride (Dry or Moist)	Inorganic Acid		D				A	A											D	A						
Phosphorous		B	C		A		A	A				B						A	C	A						
Phosphorous Trichloride	Salt																		A							
Phosphorous Chlorides													A													
Phosphorous Pentoxide													A						D							
Phosphorus Trichloride		D					A	A		A	D	D					A		D							
Photographic (Developer)		C	A	A	B		C	A		A	B	C	A			B	A	A	A	A						
Phthalic Acid	Organic Acid	B	A		B		B	A		A	B	C	B	A				A		A						
Phthalic Anhydride	Organic Acid	B	A	C	A	S	A	B			B	C	A					D	D	A						
Picric Acid	Organic Acid	C	C	D	B	S	B	B		A	A	A	B	A		A	A	B	D	A						
Pine Oil		A		B			A	A				A							A	A						
Polyphosphate	Salt		A	A	B			B					A					A	A	A						
Potash (Potassium Carbonate)		C	A	D	B		A	B		A	A	B	A			B		A	A							
Potassium			A	B	B			B					B					A	A	A						
Potassium Acetate																			R							
Potassium Alum																			R							
Potassium Amyl Xanthate																			R							
Potassium Bicarbonate	Salt	D					B	B		A	B	C	A			B	A	A	C	A						
Potassium Bichromate																			C							
Potassium Bisulfate	Salt																		C							
Potassium Borate																			C							
Potassium Bromate																			C							
Potassium Bromide	Salt	C	A	C	B		B	B		A	A	A	C		B	B	A	A	C	A						
Potassium Carbonate	Salt	C		B			A			A		B	A			B		A	C	A						
Potassium Chlorate	Salt	B	A	B	A		B	B		A	A	B	C			B	A	A	C	A						
Potassium Chloride	Salt	C	C	B			B	A		A	B	A	B			B	A	A	C	A						
Potassium Chromate		B	A	B	A		B	B				C	B			B		A	C	A						
Potassium Cyanate																			C							
Potassium Cyanide			A	D	B													A	A	A	A					
Potassium Cyanide Solutions		D	C	D	B		B	B		A	A	C	A			B	A	A	B	A						
Potassium Dichromate		B		C			B	B		A	B	B	D			B	A	A	D	A						
Potassium Ethyl Xanthate																			B							
Potassium Ferricyanide		B		C			B	B		A	B	B	A			A		A	C							
Potassium Fluoride																			C							
Potassium Hydroxide (Caustic Potash)		D	D	C	B		B	B		C	C	D	C		D	B	A	A	A	A	A					
Potassium Hydroxide (dilute)														A												
Potassium Hydroxide 30%													S		U			S								
Potassium Hydroxide 35%													S		U			S								
Potassium Hydroxide 70%														A												
Potassium Hypochlorite		D					C	B		A			B				A		C							
Potassium Iodide		B	A	B	B		A	B		A	B		B				A	A	C	A						

PRECISION BRUSH

☎ 1-800-252-4747

Chemical Reactivity with Brush Materials

A - No Effect
B - Minor Effect
C - Moderate Effect
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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Potassium Nitrate		B	B	B	A		B	B		A	B	B	C			B	A	A	C	A						
Potassium Oxalate		B					B	B		A																
Potassium Perborate																			C							
Potassium Perchlorate																			C							
Potassium Permanganate		B	B	B	A		A	B		B	C	C	D		B	B	A	C	A	A						
Potassium Persulfate	Salt																		C							
Potassium Phosphate	Salt																		C							
Potassium Sulfate	Salt	C	C	B	B		B	B		A	B	B	C			B	A	A	C	A						
Potassium Sulfide		C	A	B			B	B		A	B		A				A	A	C	A						
Potassium Sulfite	Salt																		C							
Potassium Thiocyanate													D		A			B								
Potassium Tripolyphosphate	Salt																		C							
Propane (liquefied)	Halogenated Hydrocarbon	A	A	B	A		A	A				A	A				A	C	C	A						
Propanol														A					C							
Propylene		A	A				B	A			B						A		B	A						
Propylene Dichloride																										U
Propylene Glycol		B		B	B		B	B		A	B	B	B		B	B	A	A	C	A						
Propylene Oxide																			A							
Pyridine		B	B	A	B		B	A		B		C	C	B		B	A	A	D	A						
Pyrogallic Acid		B	A	B	B		B	B		A		D	A					A	C	A						
Pyrophosphate	Salt																									
Rape Seed Oil							A	A				A					A		A							
Rayon Coagulating Bath																			C							
Refinery Crudes																			C							
Regular Brass Bath			A	-	A			A					A					A	A	A	A						
Resorcinol			A								A		D					A	C	A						S
Rhodium 120°				A	D			D					D					A	A	A	A						
Rhodium Plating 120° F													D			–		A								
Rochelle Salt Bath 150° F													A			–		A								
Rosin												B	A					A	C	A						
Rum							A	A				A	A					A	A							
Rust Inhibitors							A	A				A						A								
Salicyl Aldehyde											A															
Salicylic Acid		B	A		A		B	B		A	A	D	A		C			A	B	A						S
Salt Brine (NaCl saturated)		B	A		A		B	A		A			A				A	A	A	A						
Santicizer																			B							
Sea Water		B	C	D	A		C	C		A	A	A	A	C		B	A	A	C	A						
Selenic Acid																			C							
Sesame Seed Oil		A					A	A				A							A							
Sewage																			C							
Shellac (Bleached)		A	B	A			A	A				A	A					A		A						
Shellac (Orange)		A	B	A			A	A				A	A					A		A						

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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Silicic acid											A			C												
Silicone		B	A				A	A			D	A	A	C			A	A	C	A						
Silver 80 120°F					A			A					A					A	A	A	A					
Silver Bromide		D			A		C	C				C								A						
Silver Chloride																			C							
Silver Cyanide																			C							
Silver Nitrate		D	A	D	A		B	B		A	A	B	A	C	B	B	A	A	C	A						
Silver Plating 80-120° F													A			–		A								
Silver Sulfate	Salt																		C							
Soap Solutions		C	B	A	A		A	A		A	A	A	A			B	A	A	B	A						
Soda Ash		D					A	A			B	A	B					A	A							
Sodium			A					A					A					A	A	A						
Sodium Acetate		B	B	C	B		B	B		A	B	B	B		B	B	A	A	C	A						
Sodium Aluminate		C		C			A	A		B		B	A				A		C	A						
Sodium Arsenate																			C							
Sodium Benzoate		A	A		A					A	A		B		A			A	C	A						
Sodium Bicarbonate	Salt	D	C	B	B		A	A		A	A	A	A		B	B	A	A	C	A						
Sodium Bichromate																			B							
Sodium Bisulfate	Salt	D	C	C	B		C	C		B	B	B	C			B	A	A	C	A						
Sodium Bisulfide													C1			–		A								
Sodium Bisulfite	Salt	C	A	A	B		B	B		A	B	B	B		B	B	A	B	B	A						
Sodium Bisulphite													S		S			S								
Sodium Borate (Borax)		C	A	C	A		B	B		B	A		A		A	A	A	A	B	A						
Sodium Bromide		D	A				C	C		A	B	A	B		B			B	B	A						
Sodium Carbonate	Salt	C	B	A	A		A	A		A	A	A	B	C	B	B	A	A	B	A	A					
Sodium Chlorate		C	C	C	B		A	B		A	A	B	A			B	A	A	B	A						
Sodium Chloride		C	B	B	A		B	B		A	A	A	A		B	B	A	A	A	A						
Sodium Chlorite																			R							
Sodium Chromate		B	A	B	A		B	B				D	A				A	A	B	A						
Sodium Cyanide		D	C	B	A		A	B		A	A	B	V			B	A	A	B	A						
Sodium Dichromate 10%													C		C		D	B	C							
Sodium Ferrocyanide		A	A	A	A		B	B				A						A	B	A						
Sodium Fluoride		B	A	C	A		C	D		A	A		A			C		A	C	A						
Sodium Formate																			C							
Sodium Hydrosulfite	Salt	A			A								A				A		C	A						
Sodium Hydroxide			A	A	B			B					B				A	A	A	A						
Sodium Hydroxide (50% Solution)		D	D	*			A	B		A	C	D	C					A	A	A						
Sodium Hydroxide (80% Solution)		D	D	*			A	D		A	C	D	C					A	A	A						
Sodium Hypochlorite		D	C	C	B			C		A			B					B	B	A						
Sodium Hypochlorite 5%													U		M			M								
Sodium Hyposulfate	Salt	D					A	A												A						
Sodium Hyprochlorite (to 20%)		C	D	*			C	C		A	*	D	A					D	A	A						

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B - Minor Effect
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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Sodium Iodide																			R							
Sodium Metaphosphate	Salt	C	C	B			A	A				B	A					C	B	A						
Sodium Metasilicate		B	C	B	B		A	B				D	A					A	A	A						
Sodium Nitrate		B	C	B	B		B	B		A		B	B			B	A	A	B	A						
Sodium Nitrite																			B							
Sodium Perborate		B	B	B	B		B	B				B	B					A	B	A						
Sodium Peroxide		C	C	C			A	A			A	D	C	B				B	B	A						
Sodium Polyphosphate (Mono, Di, Tribasic)	Salt	D	D				B	B		A		B	A					A	A	A						
Sodium Silicate		B	D	B	B		A	B		A	A	C	A	B			A	A	B	A						
Sodium Sulfate	Salt	B	B	B	B		B	B		A		B	A			B	A	A	B	A						
Sodium Sulfide		D	D	B	B		B	B		A		B	B			B	A	A	B	A						
Sodium Sulfite	Salt	C	D				B	B		A			D			A		A	B	A						
Sodium Tetraborate		C	A				A	A				B	A		C			A	A	A						
Sodium Thiosulphate ("Hypo")		A	C	B	A		A	B		A		C	A		B		A	A	A	A						
Sorghum							A	A				A	A													
Soy Sauce		A					A	A				A	A													
Soybean Oil		A					A	A				A	A					A	B							
Sperm Oil							A	A				A							A							
Stannic Chloride		D	A	C	B		D	D		A	D	C	B	B	S	B	A	A	B	A						S
Stannic Fluoborate								A				C														
Stannous Chloride		D		B	B		C	B		A			C			A	A	A	B	A						
Stannous Sulfate	Salt																		C							
Starch		A	A	A			A	A			A	A	A	B		B		A	B	A						
Stearic Acid		B	B	C	B		B	A		A		A	A		B	B		B	B	A						
Stoddard Solvent		A	A	B	A		A	A		A	B	A	A		B	D	A	C	A	A						U
Styrene		A	A	A	D		A	A				A	A						D	A						
Succinic Acid																			C							
Sugar (Liquids)		A	A	B	A		A	A			A	A	A	B	B			A	A	A						
Sulfamate 100-140° F													A			–		A								
Sulfamic Acid																			B							
Sulfate (Liquors)		C	A		B		B	B				D	B					A	B	A						
Sulfate Chloride Bath 160° F	Salt	*	*	*			*	D		A	*	*	D					A	D	A				D		
Sulfite Liquor																			B							
Sulfolane																	A									
Sulfur																			B							
Sulfur Chloride		D	D		A		D	D		D		D	A			A		C	C	A						
Sulfur Dioxide (Dry)		A	C	B			A	A		*	*	*	A					*	D	A						
Sulfur Hexafluoride													B						B							
Sulfur Trioxide		A	D				A	C		D		D	D			C	D	C	B	A						
Sulfur Trioxide (Dry)		A	*	B			A	C		*	*	D	D					*	A	A						
Sulfuric Acid		D	C	A	B		D	D		D	B	D	D	C		A	D	B	D	A				B	A	
Sulfuric Acid (cold concentrated)		B					C	B		D			D				A	A	D							

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Chemical Reactivity with Brush Materials

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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Sulfuric Acid (hot concentrated)		D				D	C		D			D				D	C	D							
Sulfurous Acid		B	A	D	B	B	B		A		C	D			B	A	A	B	A						
Sulfuryl Chloride											A							A	A						
Sulphamic acid													A												
Sulphates (Na, K, Mg, Ca)										A			B												
Sulphites										A			B												
Sulphur										A			B												
Sulphur Chlorides													B												
Sulphur Dioxide, dry										A			B												
Sulphur Dioxide, wet										A			B												
Sulphur Trioxide										A			B												
Syrup		A				A	A			B	A	A					A	A							
Tallow		A	A			A	A			A	A	A	B		C		A		A						
Tannic Acid		C	B	B	B	B	A		A		B	C	B	B	B	A	A	B	A						
Tanning Liquors		B	A		B	A	A		A		B	A					A	B	A						
Tartaric Acid		B	C	C	B	B	C		A	A	B	A	B	B	B	A	A	A	A						S
Tea												B		B			B								
Terpenes																		B							
Terpineol																		B							
Tetrachlorethane	Halogenated Hydrocarbon	C	A		A	B	A		A		A	C					C	C	A						
Tetrachloroethylene			A				A				A	A					D	D	A						
Tetrahydrofuran		D	A	A	A	A	A		B		A	A	A	B	B	A	B	D	A						
Tetralin												B		B			C								
Thionyl Chloride												D						B							
Thiophenol																C									
Thread Cutting Oil																		B							
Tin Fluoborate 100°F																									
Tin Lead 100°F					A		C					D					A	A	A	A					
Tin Lead Plating 100o F		*	*	*		*	C		D	*	*	D					A	A	A				A		
Tin Salts		D			C		D		A								A	A	A						
Toluene (Toluol)												A1			C1		C1								
Tomato Juice		A		C		A	A			B	B	A				A	A	A	A						
Transformer Oil																		B							
Tributyl Citrate																		A							
Tributyl Phosphate	Salt																	B							
Trichlorethylene		B	A	B		A	A		A	D	A	C					D	D	A						
Trichloride																									
Trichloroacetic Acid		D	A	A	B	D	C		D			C	A		A	A	A	B	A						
Trichloroethane	Halogenated Hydrocarbon	D	A		A	B- G	B		A		A	C	A			C	B	C	A						
Trichloroethylene (1,1,1-)		B	A	B		A	A		A	D	C	C	B	B	D	A	D	D	A						
Trichloropropane	Halogenated Hydrocarbon	D			A	A	A			D	A								A						
Trichlorotrifluoroethane	Halogenated Hydrocarbon															C									

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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Tricresylphosphate	Salt	D	A	D	A		B	B		B	B	C	A					A	D	A						
Triethanolamine	Amine																		A							
Triethyl Phosphate	Salt																C									
Triethylamine	Amine		A	B			A	A				D	A					C	B	A						
Triethylene Glycol													B		B			B								
Triethylene Tetramine	Amine																									
Trihchlorethane	Halogenated Hydrocarbon	C					C	A		A		A								A						
Trilones																			B							
Trimethyl Propane	Halogenated Hydrocarbon																		B							
Trimethylamine	Amine																		B							
Trisodium Phosphate	Salt	D	A		A		B	B			B	A	B		B		A	B	B	A						
Turbine Oil		A					A	A			C	A							A							
Turpentine		B	B	B	B		A	A		B	D	A	A	B	B	C	A	D	D	A						
Urea		B	A	B	B		B	B		A	B	A	A	B			A	A	D	A						
Uric Acid													A			–		–								
Urine													B			A2		A								
Varnish		A	A	C	A		A	A				A	A					A	D	A						
Vegetable Juice		C	A	A			A	A			B	A	A				A	B	B	A						
Vinegar		D	D	C			A	A		A	A	B	A	B		B	A	A	A	A						
Vinyl Acetate		A	A	B			B	B										B	D	A						
Vinyl Chloride		B	A	A	A		B	A		A	D		A						D	A						
Water													S		S			S								
Water Carbonated													S		S			S								
Water, Acid, Mine		C	C	A	A		B	B		A	B	B	A				A	A	B	A						
Water, Deionized		A	A	B	A		A	A		A			A				A	A	B	A						
Water, Distilled, Lab Grade 7		A	A		A		A	A		A	B	B	A	A		A	A	A	A	A						
Water, Fresh		B	B	B	A		A	A		A	A	A	A			D	A	A	B	A						
Water, Salt		B	C	B	A		B	B		A	A	A	A	B			A	A	B	A						
Watts Type 115-160° F													A			–		A								
Weed Killers		C		B			A	A				A	A													
Wetting agents (<5%)											A			B												
Whey		B					A	A				A								A						
Whiskey and Wines		D	B	D			A	A		*	*	A	A					A	A	A						
White Liquor (Pulp Mill)		B	A		A		A	A				D	A					A	A	A						
White Water (Paper Mill)							A	A				B	A					A	A							
Xylene or Xylol		A	A	B	A		B	B		A	D	A	A	A	D	D	A	C	D	A						
Yeast											A			B												
Zinc Acetate																			B							
Zinc Carbonate	Salt																		B							
Zinc Chloride		D	B	D	B		B	B		A	C	C	C	B	B	B	A	A	B	A						
Zinc Hydrosulfite	Salt	D					A	A			A	C	A				A			A						
Zinc Hydrosulphite		D	*	*			*	A		*	*	C	*					*	*	*						

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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Zinc Nitrate																			R							
Zinc Salts in Solution													U		S				S							
Zinc Stearate													B		B				B							
Zinc Sulfate	Salt	D	B	D	A		B	A		A	A	C	A			B	A		A	B	A						
chemical		Alum	Bras	Carb		Stai	Stai	Stai	Stai		Abs	Poly	Nylo		Poly	Poly			Poly	Pvc	Tefl						Poly
Acetyl Chloride							M	E					U		D				D		E					
Amyl Phthalate																										U
Anti–Freeze		E	S	M			E	E			S	E	E		S				E	E	E					S
Arsenic Acid		U	B	U		C	A	A				U	E			S			A	E	A					
Benzol		S	E				E	E				E	E						E	U	E					
Cedarwood Oil																										U
Chlorine Water		U	U			U		U					U						U	E	E					
Chlorobenzene		S		M		E	E	E			U	E	E		M	U			U	U	E					U
Chromic Acid 50%		M	U			M	S	S			M	U	U			M			S	S	E					
Glucose 30%		E	E	S		E		E			S	E	E		S	S			E	E	E					S
Lubricating Oil		E					E	E			S	E	E		S				E	E	E					M
Mesityl Oxide																										U
Nitric Acid		S	U				U	S	E		U	U	U		M	U			U	U	E					U
Oxalic Acid 10%		M	M	U		M	E	S	E			M	U		S				S	E	E					S
Palm Oil													S		S				S							M
Perchloroethylene													S						U							U
Phosphoric Acid 50%		U	U				M	S	S		U	U	U		S	M			E	E	E					S
Propyl Alcohol iso–													M		M				S							M
Propylene Glycol													S		S				S							S
Stearic Acid [pwd]													S		S				S							S
Tea [sol]													S		S				S							S
Tetrahydrofuran													S		S				S							U
Tetralin													S		S				M							U
Thionyl Chloride													U													U
Toluene	aromatic hydrocarbon												S		M				M							U
Trichloroethylene [1–1–1]													S		S				U							U
Trisodium Phosphate	Salt												S		M				S							S
Triethylene Glycol													S		S				S							S
Triethylene Tetramine	Amine																									M
Turpentine													S		S				M							U
Water													S		S				S							S
Water Carbonated													S		S				S							S
Xylene													S		M				M							U
Zinc Chloride													U		S				S							S
Zinc Salts in solution													U		S				S							S
Zinc Stearate													S		S				S							S
Epsom Salts		E				S	E	E	E			E							E	E						

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Chemical	Group	aluminum	brass	carbon steel	hastelloy C	ss_302	ss_304	ss_316	ss_440	titanium	abs	acetal	nylon	peek	polyester	polyethylene	polyphenylene sulfide	polypropylene	pvc	teflon	cpvc	polysulfon	pvdf	epoxy	pps	polystyrene
Cycolic Acid												M				S		E								
Hydrocyanic Acid		E	U	M		E	E	E	M			S	E			S		E	E	E						
Oleum		S	M	S	D	S		E		D	D	U	D				A	U	U	E						
Phosphoric Anhydride			U				E	E		D		D					D		U	E						