

# P.V.S.<sup>®</sup> Data Sheet



P.V.S.<sup>®</sup> combines the strength and durability of steel with the chemical inertness of plastic.

P.V.S. is ideal for exhaust systems in the plating industry where alkyl mercaptans, alkyl isocyanides, hydrogen fluoride, hydrogen chloride, etc. are used.

Cyanides and chlorides have been in direct contact with vinyl coatings for years with very good results.

P.V.S. is ideal for hoods where exposure to radioactive isotopes is involved. There is no existing code — stainless steel is used only because of the ease of cleanup. Whereas P.V.S. can be cleaned just as easily.

*Note: For all installations, exposed raw edges are to be covered with P.V.S. Sealant.*

This list of the most frequently used industrial chemicals is coded to reflect the use of P.V.S. as a recommended ducting material. The following data is a result of laboratory testing conditions, and should be used as a guideline in determining the ultimate use for the material. However, actual service conditions may vary greatly. Therefore, each material should be tested under these specific conditions.

<b>A</b>						<b>F</b>	
Acetaldehyde	U	Aniline	U	Carbolic	-	Fatty Acids	E
Acetamide	-	Aniline Chlorohydrate	U	Carbonic Acid	E	Ferric Chloride	E
Acetate Solvents - Crude	U	Aniline Hydrochloride	U	Carbon Bisculfide	U	Ferric Nitrate	E
Acetate Solvents - Pure	U	Anthraquinone	E	Carbon Dioxide	E	Ferric Sulfate	E
Acetic Acid 0-20%	E	Anthraquinonesulfonic Acid	E	Carbon Monoxide	E	Ferrous Chloride	E
Acetic Acid 20-30%	E	Antimony Trichloride	E	Carbon Tetrachloride	S	Ferrous Sulfate	E
Acetic Acid 30-60%	E	Aqua Regia	E	Castor Oil	E	Fluorine Gas	E
Acetic Acid 80%	G	Arsenic Acid	E	Caustic Potash	E	Fluoroboric Acid	E
Acetic Acid - Glacial	G	Arsenius	-	Caustic Soda	E	Fluorosilicic Acid	E
Acetic Acid Vapors	E	Arylsulfonic Acid	E	Chloracetic Acid	E	Formaldehyde	E
Acetic Anhydride	U	<b>B</b>		Chloral Hydrate	E	Formic Acid	E
Acetone	U	Baking Oven Gases	-	Chloric Acid 20%	E	Freon-12	E
Acetyl Chloride	E	Barium Carbonate	E	Chlorine Gas	G	Fructose	E
Acetylene	E	Barium Chloride	E	Chlorine Water	E	Furfural	U
Adipic Acid	E	Barium Chloride	E	Chlorobenzene	U		
Alcohol, Allyl	E	Barium Hydrate	-	Chloroform	U	<b>G</b>	
Alcohol, Amyl	E	Barium Hydroxide	E	Chlorosulfonic Acid	E	Gallic Acid	E
Alcohol, Butyl	E	Barium Sulfate	E	Chrome Alum	E	Gas Coke Oven	E
Alcohol, Ethyl	E	Barium Sulfide	-	Chromic Acid 50%	E	Gas Natural	E
Alcohol, Methyl	E	Beer	E	Cider	-	Gas Manufactured	U
Alcohol, Propyl	E	Beet	E	Citric	E	Gasoline	E
Alkaform Anesthesia	-	Benzol	U	Copper Carbonate	-	Glauber's Salt	-
Allyl Chloride	U	Benzaldehyde	U	Copper Chloride	E	Gold Cyanide Electroplating	-
Alum	E	Benzene Sulfonic Acid 10%	E	Copper Cyanide	E	Glucose	E
Alum, Chrome	E	Benzoic	E	Copper Fluoride	E	Glycerine	E
Alum, Potassium	E	Bismuth Carbonate	E	Copper Nitrate	E	Glycol	E
Aluminum Chloride	E	Black Liquor	E	Copper Sulfate	E	Glycolic Acid	E
Aluminum Fluoride	E	Bleach	E	Cottonseed Oil	E	Green Liquor	E
Aluminum Hydroxide	E	Borax	E	Cresol	U		
Aluminum Oxychloride	E	Boric Acid	E	Cresote	-	<b>H</b>	
Aluminum - Molten	-	Boron Trifluoride	E	Cresylic Acid 50%	E	Heptaine	E
Aluminum Nitrate	E	Bordeaux Mixture	-	Croton Aldehyde	U	Hexane	E
Aluminum Sulfate	E	Breeder Pellets	E	Crude Oil	E	Hexanol Tertiary	E
Aluminum Sulfuric Acid		Brine	E	Cyclohexanol	U	Hydrobromic Acid 20%	E
40-70 95%		Bromic Acid	E	Cyclohexanon	U	Hydrochloric Acid 35%	E
Ammonia, Gas	E	Bromine Liquid	U	<b>D</b>		Hydrochloric Acid 50%	E
Ammonia, Liquid	S	Bromine Water	E	Deminerlized Water	E	Hydrocyanic Acid 10%	E
Ammonia, Aqua 10%	E	Butadiene	E	Dextrin	E	Hydrofluoric Acid 50%	E
Ammonium Acetate	-	Butane	E	Dextrose	E	Hydrogen	E
Ammonium Bifluoride	E	Butanol Primary	E	Diazo Salts	E	Hydrogen Cyanide	E
Ammonium Bromide	-	Butanol Secondary	E	Diglycolic Acid	E	Hydrogen Peroxide 50%	E
Ammonium Carbonate	E	Butyl Acetate	G	Dimethylamine	U	Hydrogen Phosphide	E
Ammonium Chloride	E	Butyl Alcohol	E	Diethylphthalate	U	Hydrogen Sulfide Dry+	E
Ammonium Clouride 25%	E	Butylene	E	Disodium Phosphate	E	Hydrogen Sulfide Aq. Sol.	E
Ammonium Hydroxide 28%	E	Butyl Phensl	E	<b>E</b>		Hydroquinone	E
Ammonium Hydroxide 28%	E	Butyne Diol	E	Ethers	U	Hydroxylamine Sulfate	E
Ammonium Metaphosphate	E	Butyric Acid	G	Ethyl Acetate	U	Hypochlorous Acid	E
Ammonium Nitrate	E	<b>C</b>		Ethyl Acrylate	U	<b>I</b>	
Ammonium Monophosphate	-	Cadmium	-	Ethyl Alcohol	E	Iodine	U
Ammonium Oxalate	-	Calcium Bisulfite	E	Ethyl Chloride	U	<b>J</b>	
Ammonium Persulphate	E	Calcium Carbonate	E	Ethyl Ether	U	Jet Fuel JP-4	E
Ammonium Phosphate	E	Calcium Chlorate	E	Ethylene Bromide	U	Jet Fuel JP-5	E
Ammonium Sulfate	E	Calcium Chloride	E	Ethylene Chlorohydrin	U	<b>K</b>	
Ammonium Sulfide	E	Calcium Chloride	E	Ethylene Dichloride	U	Kerosene	E
Ammonium Thiocyanate	E	Calcium Hydroxide	E	Ethylene Glycol	E	Ketones	U
Amyl Acetate	U	Calcium Hypochlorite	E			Kraft Liquor	E
Amyl Alcohol	E	Calcium Nitrate	E				
Amyl Chloride	U	Calcium Sulfate	E				
		Carbonated Beverages	-				

E = Excellent G = Good S = Satisfactory U = Unsatisfactory

**L**

Lactic Acid 25%	E
Lactic plus Salt	-
Lard Oil	E
Lauric Acid	E
Lauryl Chloride	E
Lead Molten	-
Lead Acetate	E
Lemon Oil	-
Linseed Oil	E
Linoleic Acid	E
Liqueurs	E
Lubricating Oil	-
Lysol	-

**M**

Magnesium Carbonate	E
Magnesium Chloride	E
Magnesium Hydroxide	E
Magnesium Nitrate	E
Magnesium Sulfate	E
Maleic Acid	E
Malic Acid	E
Meats	-
Mercuric Chloride	E
Mercuric Cyanide	E
Mercurous Nitrate	E
Mercury	E
Methane	E
Methyl Alcohol	E
Methyl Chloride	U
Methyl Sulfate	E
Methyl Sulfuric Acid	E
Methylene Chloride	U
Milk	E
Mineral Oil	E
Mine Water	-
Mixed Acids	E
Molasses	E
Molybdc	-
Monoethanolamine	-

**N**

Naphtha	E
Naphthalene	U
Nickel Chloride	E
Nickel Nitrate	E
Nickel Sulfate	E
Nicotine	E
Nicotinic Acid	E
Nitric Acid 10%	E
Nitric Acid 70%	E
Nitric Acid 100%	U
Nitrobenzene	U
Nitrous Acid 10%	-
Nitrous Oxide	E

**O**

Ocenol	E
Oil and Fats	E
Oleic Acid	E
Oleum	U
Oxalic Acid	E
Oxygen	E
Ozone	G

**P**

Palmitic Acid 10%	E
Palmitic Acid 70%	E
Peracetic Acid 40%	E
Perchloric Acid 10%	E
Perchloric Acid 70%	U
Phenol	E
Phenylhydrazine	U
Phenylhydrazine Hydrochloride	E
Phosgene Liquid	U
Phosgene Gas	E
Phosphoric Acid 10%	E
Phosphoric Acid 25%, 50%	E
Phosphoric Acid 50%, 85%	E
Phosphorus Yellow	E
Phosphorus Pentoxide	E
Phosphorus Trichloride	U
Photographic Solutions	E
Picric Acid	U
Plating Solutions	E
Plating Solutions, Brass	-
Plating Solutions, Cadmium	-
Plating Solutions, Chrome 25%	-
Plating Solutions, Chrome 40%	-
Plating Solutions, Copper	-
Plating Solutions, Gold	-
Plating Solutions, Iron	-
Plating Solutions, Lead	-
Plating Solutions, Nickel	-
Plating Solutions, Rhodium	-
Plating Solutions, Silver	E
Plating Solutions, Tin	-
Plating Solutions, Zinc	-
Potassium Aluminum Sulfate	-
Potassium Bicarbonate	E
Potassium Bichromate	E
Potassium Borate	E
Potassium Bromate	E
Potassium Bromide	E
Potassium Carbonate	E
Potassium Chlorate Aqueous	-
Potassium Chloride	E
Potassium Chromate	-
Potassium Cyanide	E
Potassium Dichromate	E
Potassium Ferricyanide	E
Potassium Ferrocyanide	E
Potassium Fluoride	E
Potassium Hydrate	-
Potassium Hydroxide	E
Potassium Hypochlorite	-
Potassium Iodide	-
Potassium Nitrate	E
Potassium Oxalate	-
Potassium Perborate	E
Potassium Perchlorate	E
Potassium Permanganate 10%	E
Potassium Persulfate	E
Potassium Sulfate	E
Propane	E
Propargyl Alcohol	E
Propyl Alcohol	E
Propylene Dichloride	U
Pyrogallic	-
Pyroligneus	-

**R**

Rayon Coagulating Bath	E
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**S**

Salenic Acid Aqueous	E
Salicylic Acid	E
Salicylaldehyde	-
Sea Water	E
Sauerkraut Brine	-
Selenic Acid	E
Silicic Acid	E
Silver Bromide	-
Silver Nitrate	E
Silver Cyanide Electroplating Sol.	-
Soaps	E
Soap Solutions	E
Sodium Acetate	E
Sodium Benzoate	E
Sodium Bicarbonate	E
Sodium Bichromate	-
Sodium Bisulfate	E
Sodium Borate	-
Sodium Bisulfite	E
Sodium Bromide	E
Sodium Carbonate	E
Sodium Chlorate	E
Sodium Chloride	E
Sodium Chlorite	-
Sodium Citrate	-
Sodium Cyanide	E
Sodium Dichromate	E
Sodium Ferricyanide	E
Sodium Ferrocyanide	E
Sodium Fluoride	E
Sodium Hydroxide 15%	E
Sodium Hydroxide 30%	E
Sodium Hydroxide 70%	E
Sodium Hypochlorite	E
Sodium Iodide	-
Sodium Lactate	-
Sodium Nitrate	E
Sodium Nitrite	E
Sodium Peroxide	-
Sodium Phosphate	-
Sodium Sulfate	E
Sodium Sulfide	E
Sodium Sulfite	E
Sodium Thiosulfate 20% plus Acetic Acid 20%	-
Sodium Thiosulfate plus 4% Potassium Meta Bisulfate	-
Soda Ash	-
Sour Crude Oil	E
Speculum Plating Solution	-
Stannic Chloride	E
Stannous Chloride	E
Stearic Acid	E
Stoddard's Solvent	E
Succinic	-
Sulfated Detergents	-
Sulfur	E
Sulfur Chloride	-
Sulfur Dioxide Dry	E
Sulfur Dioxide Wet	G
Sulfur Oxychloride	-
Sulfuric Acid 10%	E

Sulfuric Acid 30%	E
Sulfuric Acid 60%	E
Sulfuric Acid 70%	E
Sulfuric Acid 80%	E
Sulfuric Acid 90%	E
Sulfuric Acid 95%	E
Sulfuric Acid 103%	U
Sulfurous Acid	E
Sulfur Trioxide	E
Steam and Air	-
Steam and CO <sub>2</sub> and Air	-
Steam SO <sub>2</sub> , CO <sub>2</sub> and Air	-
Syrup	-

**T**

Tall Oil	E
Tannic Acid	E
Tanning Liquors	E
Tartaric Acid	E
Tetraethyl Lead	E
Tetrahydrofuran	U
Thionyl Chloride	U
Thread Cutting Oils	-
Titanium Tetrachloride	E
Toluene, Toluol	U
Toluene-Kerosene Mixture	-
Tomato Juice	-
Toxaphene-Xylene	-
Tributyl Phosphate	U
Trichloroacetic Acid	-
Trichloroethylene	U
Triethanolamine	E
Triethylamine	E
Trimethylpropane	E

**U**

Urea	E
Uric	E
Urine	E

**V**

Vegetable Oil	-
Vegetable Juices	-
Vinyl Acetate	U
Visco 202 Crude Oil aAdditive	-

**W**

Water	E
Water Acid Mine	E
Water Demineralized	E
Water Distilled	E
Water Salt	E
Water Sewage	E
Whiskey	E
White Liquor	E
Wines	E

**X**

Xylene or Xylol	U
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**Z**

Zinc Chloride	E
Zinc Chromate	E
Zinc Cyanide	E
Zinc Molten	-
Zinc Nitrate	E
Zinc Sulfate	E



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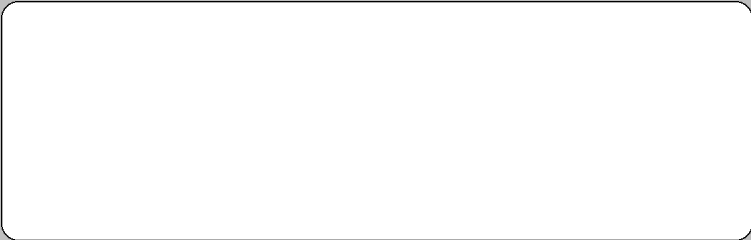
*P.V.S. is an exclusive product of:*

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